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ENVIRONMENT

Mike Schmoller
Project Manager
Wisconsin Department of Natural Resources
South Central Region
3911 Fish Hatchery Rd
Fitchburg WI 53711

Subject:
Supplemental Building Interior Polychlorinated Biphenyl Work Plan Subsurface Investigation Summary, Madison-Kipp Corporation, 201 Waubesa Street, Madison, Wisconsin. Facility ID No. 113125320, BRRTS No. 02-13-001569

Date:
April 22, 2014

Contact:
Jennine Trask

Phone:
414.276.7742

Email:
jennine.trask@arcadis-us.com

Our ref:
WI001368.0012

Dear Mr. Schmoller:

On August 1, 2013 a *Supplemental Work Plan for Polychlorinated Biphenyl Building Subsurface Investigation* (Work Plan) was submitted to the Wisconsin Department of Natural Resources (WDNR) and United States Environmental Protection Agency (U.S. EPA) for supplemental investigation activities at the Madison-Kipp facility located at 201 Waubesa Street (Site). The objective of the supplemental activities was to complete additional delineation related to volatile organic compounds (VOCs) and polychlorinated biphenyls (PCBs) beneath the main Site building. This letter provides a summary of the investigation activities completed in accordance with the Work Plan, analytical results, and recommendations. A Natural Resources (NR) 712.09 submittal certification is included in Attachment A.

Background

A *Site Investigation Work Plan* was submitted to the WDNR on May 31, 2012, for approval to complete site investigation activities at the Site. The WDNR provided a *Conditional Approval* letter dated June 25, 2012, for this work plan. On September 28, 2012, a *Site Investigation Work Plan Addendum, Building Subsurface Investigation* (Addendum) was submitted to the WDNR to present the proposed investigation activities to fill data gaps concerning potential source areas beneath the on-Site building floor. The Addendum was approved by WDNR in a letter dated October 17, 2012. A summary letter, *Building Subsurface Investigation Summary,* dated February 14, 2013, was submitted to the WDNR to document the Addendum activities.

On March 15, 2013, a *Site Investigation and Interim Actions Report, February 2012 – January 2013* (SI Report) was submitted to the WDNR to summarize investigation

activities and results for the reporting period. On May 29, 2013, a *Supplemental Site Information/Addendum 1* was submitted to the WDNR to provide further information regarding the Site (SI Addendum 1). The SI Report was reviewed by the WDNR and a response letter dated June 20, 2013 was prepared that requested a work plan to address "sampling for degree and extent of PCB [polychlorinated biphenyls] and VOC [volatile organic compounds] soil contamination beneath the MKC manufacturing buildings."

On July 8, 2013, ARCADIS met with the WDNR to discuss the agency's June 20, 2013 response letter and requested a joint meeting with the WDNR and U.S. EPA to clarify the investigation expectations for beneath the manufacturing building. On July 23, 2013, ARCADIS met with the WDNR and U.S. EPA to discuss the investigation results completed to date, conduct a site walk, and discuss the objective of additional investigation activities.

Based on the July 23, 2013 meeting, the Work Plan was prepared and submitted to WDNR and U.S. EPA on August 1, 2013. The Work Plan was approved by WDNR in the *Madison Kipp Corporation (MKC) Work Plan Reviews* letter, dated October 9, 2013. The investigation activities were initiated in December 2013. Details of these activities are presented below.

Investigation Activities – December 2013 through February 2014

The following site investigation activities were completed in accordance with the approved Work Plan.

- Conducted utility clearing activities.
- Advanced 27 soil borings, 6 of which were conducted at previously sampled boring locations, using a hand cart direct push rig.
- Collected and submitted a total of 72 soil samples for laboratory analysis of VOCs and PCBs.
- Surveyed the soil boring locations.
- Managed the investigative-derived waste.

Health and Safety

Prior to beginning the investigation, the Site health and safety plan was updated to address the planned field activities. Utility marking arrangements were made through Digger's Hotline (the State of Wisconsin Public Utility clearance service), a private utility locater, and discussions with Madison-Kipp.

Soil Boring Advancement

Advancement and sampling of the soil borings was initiated on December 30, 2013. The boring locations were selected based on the analytical results documented in the *Building Subsurface Investigation Summary* dated February 14, 2013 and subsequent discussions with WDNR and U.S. EPA. The boring locations were approved by WDNR in the October 9, 2013 letter. The soil boring locations are presented on Figure 1.

A total of 27 soil borings were completed December 2013 through February 2014, six of which were conducted at previous boring locations (B-136, B-148, B-149, B-150, B-158, and B-160). The soil borings were advanced using a direct-push hand-cart Geoprobe unit. Soil samples were collected by driving a steel sampling rod (sampler) with acetate liners to the desired sampling depth using the hydraulic ram and hammer on the Geoprobe rig. Once the sampler reached the desired depth, the sampler was opened by removing a stop pin in the sampler. The sampler was driven an additional 4 feet to push a soil sample into the sampler, preserving the sample in a 1.5-inch by 4-foot acetate liner inside the sampler. The acetate sleeves allowed for continuous collection of soil samples from each boring.

Companion sampling was completed at the soil boring locations by collecting two aliquots of soil from each sampling interval and placing each aliquot into a separate re-sealable plastic bag. One of the companion samples from each interval was used for field screening for the presence of total ionizable VOC vapors with a calibrated photoionization detector (PID). The screening samples were warmed and the headspace PID reading of the soil was taken by inserting the probe end of the PID into the plastic bag through the seal. Select soil samples were also tested in the field for PCBs using Clor-N-Soil test kits made by Dexsil®. The Clor-N-Soil test kits are self-contained kits that allow field personnel to perform an in-field test to verify if PCB concentrations exceed 50 milligrams per kilogram (mg/kg). The Clor-N-Soil test kits served as a guide to assist with determining if PCB delineation may be met and were not in lieu of laboratory analytical data. Following field screening activities, the screened

samples were appropriately discarded; the unscreened companion samples were used for preparing samples for analytical testing.

An ARCADIS scientist was on Site to oversee the drilling activities and visually screen and describe the condition and engineering properties of the soil. Soil descriptions and field screening PID results were recorded on Soil Boring Logs (WDNR Form 4400-122) and Borehole Abandonment Forms (WDNR Form 3300-005) and are included in Attachment B.

From December 2013 through February 2014 a total of 72 soil samples were collected and submitted to the laboratory for analysis of VOCs and PCBs. Soil samples were collected based on PID screening, Clor-N-Soil test kits, and/or visual inspection. Below is a summary of the general sampling plan.

- Up to three soil samples were collected per boring:
  - One soil sample was collected from a 2-foot interval located from 0 to 4 feet bls.
  - One soil sample was collected from the 2-foot interval located directly above the water table or where refusal was encountered, and/or
  - One soil sample was collected from a 2-foot interval located between 4 feet bls and the sample collected above the water table, or where refusal was encountered.

Surveying

A Wisconsin-licensed surveyor located the horizontal location of each boring to Wisconsin state plane coordinates and vertical elevation. Ground elevations were surveyed to an accuracy of +/-1 foot.

Investigative-Derived Waste

Soil cuttings generated during the investigation were containerized in appropriate steel 55-gallon drums for waste profiling and disposal off site.

Evaluation of Results and Recommendations

The following sections present a summary of the geology/hydrogeology, soil regulatory criteria, analytical results, and recommendations. Groundwater quality is monitored through the Site groundwater sampling program included in the 2013 Annual Report.

Surface Soil Geologic and Hydrogeologic Conditions

The geology under the building consisted of 6 to 8 inches of concrete overlaying 4 to 8 feet of dark yellowish brown (10YR 4/4; 10YR 4/6) clay with little to some silt, trace fine sand or gravel. The clay was generally stiff with low to moderate plasticity. Underlying the clay is brownish yellow (10YR 6/6), very fine to fine sand with trace to little gravel. Sandstone bedrock was encountered at approximately 36 feet bls. Groundwater was encountered at approximately 29.5 feet bls.

Soil Regulatory Criteria

The WDNR Remediation and Redevelopment Program has prepared a spreadsheet with industrial direct contact residual contaminant levels (RCLs) for chemicals, calculated using the U.S. EPA Regional Screening Table web calculator. The industrial RCLs for VOCs and PCBs are summarized in Table 1.

Title 40 Code of Federal Regulations §761.61 provides cleanup and disposal options for PCB remediation waste. Soil PCB analytical results were compared to the bulk remediation waste cleanup level for high occupancy cleanup level of less than or equal to 1 mg/kg and a Toxic Substance Control Act (TSCA) total PCB concentration of greater than or equal to 50 mg/kg to determine soil disposal options. These criteria are summarized in Table 1.

Soil Analytical Results

A total of 27 soil borings were advanced and sampled beneath the building floor with 72 soil samples collected and submitted for laboratory analysis of VOCs and PCBs. A summary of the soil analytical results is presented in Table 1, and copies of the laboratory analytical reports are provided in Attachment C. The soil boring locations are presented on Figure 1.

The objective of the supplemental activities was to complete additional delineation related to VOCs and PCBs beneath the main Site building. Based on the analytical results from this investigation, the delineation is complete. Only one of the samples collected, B-190 from 0 to 2 feet bls, exceeded the industrial direct contact RCLs for tetrachloroethene (2,400 mg/kg) and trichloroethene (150 mg/kg). The boring is located in the north parking lot and will be managed through maintenance of the Site paved areas as an engineered barrier (cap).

Twenty-six of the 72 samples contained PCBs above the U.S. EPA high occupancy cleanup level of 1 mg/kg and fifteen samples were detected above the TSCA disposal limit of 50 mg/kg. These locations are presented on Figure 2. The highest PCB concentrations are located adjacent to the historical concrete trench located in the middle of the facility, running north to south. Figure 3 shows isoconcentration lines for total detected PCBs in soil, and Figure 4 shows a cross-section with total detected PCBs in soil beneath the building along the historical trench location from north to south.

As shown on Figures 3 and 4, PCBs have been delineated beneath the building. In general, the highest concentrations of total PCBs are present along the historical trench at varying depths from 0 to 2 feet bls up to approximately 18 feet bls. This soil is present beneath 6 to 8 inches of concrete so there is no complete exposure pathway for direct contact. During future building maintenance activities, some impacted soil in the area of the historical trench (e.g., up to approximately 3 feet bls) may be removed if accessible and the structural stability of the building can be maintained. A work plan will be provided to WDNR and U.S. EPA for approval should this work be performed. Soils will be managed through maintenance of the Site building or pavement as an engineered barrier (cap). A Materials Handling Plan and Engineered Barrier (Cap) Maintenance Plan will be developed as part of the overall site plan.

Closing

If you have any questions regarding this letter, please contact us at (414) 276-7742.

Sincerely,

ARCADIS U.S., Inc.

Chris Kubacki, PE
Senior Engineer

Jennine Trask, PE
Project Manager

Attachments:

Table 1 – Summary of Soil Analytical Results

Figure 1 – Soil Boring and Well Locations, Building Investigation
Figure 2 – Soil Locations Above TSCA Disposal Limit
Figure 3 – Total PCB Isoconcentration Map
Figure 4 – Interior Building Trench Cross Section Total PCBs

Attachment A Submittal Certification
Attachment B Soil Boring Logs and Abandonment Forms
Attachment C Laboratory Reports

Electronic Copies:
David Crass – Michael Best
Mark Meunier – Madison Kipp
Kenneth Zolnierczyk – United States Environmental Protection Agency

Table 1. Summary of Soil Analytical Results, Building Subsurface Investigation Summary, Madison-Kipp Corporation, 201 Waubesa Street, Madison, Wisconsin.

Boring ID	Industrial	EPA	TSCA	B-136			B-148		
Sample Date	Direct	High Occpancy	Disposal	10/25/2012	1/15/2014	1/15/2014	10/19/2012	1/2/2014	1/2/2014
Sample Depth (feet bls)	Contact RCL	Cleanp Level	Limit	2-4	4-6	10-12	5.8-7.8	10-12	17.5-19.5
VOCs									
1,2,3-Trichlorobenzene	151	NE	NE	<0.69	<0.039	<0.047	<0.02	<0.03	<0.031
1,2,4-Trichlorobenzene	98.7	NE	NE	<0.75	<0.042	<0.051	0.15	0.16 J	<0.033
1,2,4-Trimethylbenzene	219	NE	NE	50	0.094 J	0.67	0.53	0.2	<0.019
1,2-Dichlorobenzene	376	NE	NE	<0.41	<0.023	<0.028	<0.012	<0.018	<0.018
1,3,5-Trimethylbenzene	182	NE	NE	19	<0.023	0.22 J	0.19	0.053 J	<0.018
1,3-Dichlorobenzene	297	NE	NE	<0.51	<0.028	<0.035	<0.015	<0.022	<0.023
1,4-Dichlorobenzene	17.5	NE	NE	<0.34	<0.019	<0.023	<0.01	<0.015	<0.015
cis-1,2-Dichloroethene	2,040	NE	NE	<0.24	<0.014	<0.017	0.13	<0.011	<0.011
Ethylbenzene	37	NE	NE	<0.25	<0.014	<0.017	<0.0072	<0.011	<0.011
Isopropylbenzene	268	NE	NE	<0.5	<0.028	<0.034	0.21	<0.022	<0.022
Naphthalene	26	NE	NE	6.5	<0.055	<0.066	0.15	0.089 J	<0.044
N-Btylbenzene	108	NE	NE	<0.26	<0.014	0.18	<0.0074	0.059 J	<0.011
N-Propylbenzene	264	NE	NE	2.1 J	<0.019	0.071 J	0.069 J	<0.015	<0.016
p-Isopropyltolene	162	NE	NE	8.7	<0.02	0.12 J	0.064 J	<0.016	<0.016
sec-Btylbenzene	145	NE	NE	4.2	<0.017	0.081 J	0.073	<0.013	<0.014
Tetrachloroethene	153	NE	NE	<0.33	0.14	0.16	2	1.4	<0.015
Tolene	818	NE	NE	<0.23	<0.013	<0.015	<0.0066	<0.0099	<0.01
trans-1,2-Dichloroethene	976	NE	NE	<0.49	<0.028	<0.034	<0.014	<0.022	<0.022
Trichloroethene	8.81	NE	NE	<0.37	0.029 J	<0.025	0.068	<0.016	<0.016
Vinyl Chloride	2.03	NE	NE	<0.21	<0.012	<0.014	0.02	<0.009	<0.0092
Total Xylenes	258	NE	NE	<0.14	<0.0076	<0.0092	0.092	<0.0059	<0.0061
PCBs									
Aroclor 1242	0.744	NE	NE	**56**	**12**	**11**	**20,000**	**1,600**	**1.1**
Aroclor 1248	0.744	NE	NE	<1.6	<0.4	<0.34	<380	<34	<0.035
Aroclor 1254	0.744	NE	NE	<0.89	<0.22	<0.19	<210	<19	<0.019
Total Detected PCBs	NE	1	50	***56***	***12***	***11***	***20,000***	***1,600***	***1.1***

Footnotes on Page 10.

Table 1. Summary of Soil Analytical Results, Building Subsurface Investigation Summary, Madison-Kipp Corporation, 201 Waubesa Street, Madison, Wisconsin.

Boring ID	B-149				B-150			B-158	
Sample Date	10/19/2012	10/19/2012	1/2/2014	1/2/2014	10/19/2012	1/2/2014	1/2/2014	10/17/2012	12/30/2013
Sample Depth (feet bls)	0.7-2.7	5.7-7.7	8-10	10-11.4	1-3	13-15	18-20	4-6	8-9
VOCs									
1,2,3-Trichlorobenzene	<0.021	<0.02	<0.031	<0.03	<0.021	<0.03	<0.029	<0.02	<0.032
1,2,4-Trichlorobenzene	<0.023	<0.021	<0.034	<0.032	<0.023	<0.033	<0.031	0.051 J	0.083 J
1,2,4-Trimethylbenzene	0.29	<0.012	0.31	0.28	<0.013	0.079 J	0.1 J	0.09 J	0.19
1,2-Dichlorobenzene	<0.012	<0.012	<0.018	<0.017	<0.013	<0.018	<0.017	0.098 J	<0.019
1,3,5-Trimethylbenzene	0.1 J	<0.012	0.096 J	0.091 J	<0.013	<0.018	<0.017	0.031 J	0.055 J
1,3-Dichlorobenzene	<0.015	<0.015	<0.023	<0.022	<0.016	<0.022	<0.021	<0.015	<0.023
1,4-Dichlorobenzene	<0.01	<0.0099	<0.016	<0.015	<0.011	<0.015	<0.014	<0.01	<0.016
cis-1,2-Dichloroethene	<0.0074	<0.007	<0.011	<0.01	<0.0075	0.18	0.36	<0.0071	<0.011
Ethylbenzene	<0.0076	<0.0071	<0.011	<0.011	<0.0077	<0.011	<0.01	<0.0073	<0.011
Isopropylbenzene	0.043 J	<0.014	<0.022	<0.021	<0.015	<0.022	<0.021	0.16	0.28
Naphthalene	<0.03	<0.028	<0.044	0.11 J	<0.03	<0.043	0.095 J	<0.029	<0.045
N-Btylbenzene	<0.0078	<0.0073	0.069 J	0.066 J	<0.0079	<0.011	<0.011	<0.0075	<0.012
N-Propylbenzene	0.038 J	<0.0099	<0.016	<0.015	<0.011	<0.015	<0.014	<0.01	<0.016
p-Isopropyltolene	<0.011	<0.01	<0.017	<0.016	<0.011	<0.016	<0.015	<0.011	<0.017
sec-Btylbenzene	<0.0093	<0.0087	<0.014	<0.013	<0.0094	<0.013	<0.013	<0.0089	<0.014
Tetrachloroethene	0.12	0.046 J	0.077 J	0.3	0.038 J	1.9	3.1	<0.0097	0.055 J
Tolene	0.01 J	<0.0065	<0.01	0.03	<0.007	<0.0099	<0.0095	<0.0067	<0.01
trans-1,2-Dichloroethene	<0.015	<0.014	<0.022	<0.021	<0.015	<0.022	<0.021	<0.015	<0.023
Trichloroethene	0.016 J	<0.011	<0.017	<0.016	<0.011	0.068	0.14	<0.011	<0.017
Vinyl Chloride	<0.0063	<0.0059	<0.0093	<0.0088	<0.0064	<0.009	<0.0086	<0.006	<0.0094
Total Xylenes	0.051	<0.0039	0.05	0.072	<0.0042	<0.0059	<0.0057	<0.004	<0.0062
PCBs									
Aroclor 1242	**10,000**	**12,000**	**800**	**27**	**2,800**	**12**	0.32	**1,900 B**	**340**
Aroclor 1248	<190	<370	<35	<1.3	<79	<0.68	<0.0068	<73	<13
Aroclor 1254	<100	<200	<19	<0.72	<43	<0.37	<0.0037	<40	<7.3
Total Detected PCBs	***10,000***	***12,000***	***800***	***27***	***2,800***	***12***	0.32	***1,900***	***340***

Footnotes on Page 10.

Table 1. Summary of Soil Analytical Results, Building Subsurface Investigation Summary, Madison-Kipp Corporation, 201 Waubesa Street, Madison, Wisconsin.

Boring ID	B-158 (continued)		B-160			B-175			B-176
Sample Date	12/30/2013	1/3/2014	10/17/2012	1/3/2014	1/3/2014	12/30/2013	12/30/2013	12/30/2013	12/30/2013
Sample Depth (feet bls)	10-12	15-17	0.9-2.9	12-14	17-19	2-4	14-16	18.5-20.5	2-4
VOCs									
1,2,3-Trichlorobenzene	<0.034	0.47	<0.021	<0.028	<0.028	<0.035	<0.03	<0.031	<0.039
1,2,4-Trichlorobenzene	<0.037	0.34	<0.022	<0.03	<0.03	<0.038	<0.033	<0.034	<0.042
1,2,4-Trimethylbenzene	0.29	0.32	<0.012	<0.017	<0.017	<0.021	<0.018	<0.019	<0.024
1,2-Dichlorobenzene	<0.02	0.5	<0.012	<0.016	<0.017	<0.021	<0.018	<0.018	<0.023
1,3,5-Trimethylbenzene	0.086 J	0.086 J	<0.012	<0.016	<0.017	<0.021	<0.018	<0.018	<0.023
1,3-Dichlorobenzene	<0.025	0.37	<0.015	<0.02	<0.021	<0.026	<0.022	<0.023	<0.029
1,4-Dichlorobenzene	<0.017	0.2	<0.01	<0.014	<0.014	<0.017	<0.015	<0.016	<0.02
cis-1,2-Dichloroethene	0.071 J	0.23	<0.0073	<0.0098	<0.0099	<0.012	<0.011	<0.011	<0.014
Ethylbenzene	<0.012	<0.011	<0.0074	<0.01	<0.01	<0.013	<0.011	<0.011	<0.014
Isopropylbenzene	0.26	0.41	<0.015	<0.02	<0.02	<0.025	<0.022	<0.022	<0.028
Naphthalene	<0.048	0.11 J	<0.029	<0.039	<0.04	<0.05	<0.043	<0.044	<0.055
N-Btylbenzene	0.071 J	0.085	<0.0076	<0.01	<0.01	<0.013	<0.011	<0.012	<0.014
N-Propylbenzene	<0.017	<0.015	<0.01	<0.014	<0.014	<0.018	<0.015	<0.016	<0.02
p-Isopropyltolene	<0.018	<0.016	<0.011	<0.015	<0.015	<0.019	<0.016	<0.017	<0.021
sec-Btylbenzene	<0.015	<0.013	<0.0091	<0.012	<0.012	<0.015	<0.013	<0.014	<0.017
Tetrachloroethene	0.96	0.64	<0.0098	<0.013	<0.013	<0.017	<0.014	<0.015	<0.019
Tolene	0.024	0.017 J	<0.0068	<0.0092	<0.0093	<0.012	0.026	<0.01	0.083
trans-1,2-Dichloroethene	<0.024	<0.021	<0.015	<0.02	<0.02	<0.025	<0.022	<0.022	<0.028
Trichloroethene	<0.018	0.04 J	<0.011	<0.015	<0.015	<0.019	<0.016	<0.017	<0.021
Vinyl Chloride	<0.01	<0.0089	<0.0061	<0.0083	<0.0084	<0.01	<0.009	<0.0093	<0.012
Total Xylenes	0.084	0.031 J	<0.004	<0.0054	<0.0055	<0.0069	<0.0059	<0.0061	<0.0077
PCBs									
Aroclor 1242	**170**	**1,100**	**200 B**	**1.8**	<0.0058	0.051	<0.0056	0.011 J	0.017 J
Aroclor 1248	<3.4	<33	<7.7	<0.067	<0.007	<0.0081	<0.0068	<0.007	<0.0078
Aroclor 1254	<1.9	<18	<4.2	<0.036	<0.0038	<0.0044	<0.0037	<0.0038	<0.0042
Total Detected PCBs	***170***	***1,100***	***200***	***1.8***	ND	0.051	ND	0.011	0.017

Footnotes on Page 10.

Table 1. Summary of Soil Analytical Results, Building Subsurface Investigation Summary, Madison-Kipp Corporation, 201 Waubesa Street, Madison, Wisconsin.

Boring ID	B-176 (continued)		B-177	B-178			B-179			
Sample Date	12/30/2013	12/30/2013	1/3/2014	1/2/2014	1/2/2014	1/2/2014	1/3/2014	1/3/2014	1/3/2014	1/4/2014
Sample Depth (feet bls)	12-14	18.5-20.5	2-4	2-4	6-7.5	9-11	2-4	4-6	9-11	21.1-23.1
VOCs										
1,2,3-Trichlorobenzene	<0.027	<0.031	<0.044	<0.035	<0.037	<0.031	<0.034	<0.039	<0.019	<0.031
1,2,4-Trichlorobenzene	<0.029	<0.033	<0.047	<0.038	<0.04	<0.034	<0.037	<0.042	0.16	<0.033
1,2,4-Trimethylbenzene	<0.016	<0.019	<0.026	<0.021	<0.022	<0.019	0.14 J	0.32	0.33	<0.019
1,2-Dichlorobenzene	<0.016	<0.018	<0.025	<0.021	<0.022	<0.018	<0.02	<0.023	<0.011	<0.018
1,3,5-Trimethylbenzene	<0.016	<0.018	<0.026	<0.021	<0.022	<0.018	<0.02	0.086 J	0.084 J	<0.018
1,3-Dichlorobenzene	<0.02	<0.023	<0.032	<0.026	<0.027	<0.023	<0.025	<0.029	<0.014	<0.023
1,4-Dichlorobenzene	<0.013	<0.015	<0.022	<0.018	<0.018	<0.016	<0.017	<0.02	<0.0093	<0.015
cis-1,2-Dichloroethene	<0.0095	<0.011	<0.015	<0.012	<0.013	<0.011	<0.012	<0.014	<0.0066	<0.011
Ethylbenzene	<0.0097	<0.011	<0.016	<0.013	<0.013	<0.011	<0.012	<0.014	<0.0067	<0.011
Isopropylbenzene	<0.019	<0.022	<0.031	<0.025	<0.026	<0.022	0.12 J	0.44	0.21	<0.022
Naphthalene	<0.038	<0.044	<0.061	<0.05	<0.052	<0.044	<0.048	<0.055	0.1 J	<0.043
N-Btylbenzene	<0.0099	<0.011	<0.016	<0.013	<0.014	<0.012	<0.012	0.089 J	0.098	<0.011
N-Propylbenzene	<0.013	<0.015	<0.022	<0.018	<0.018	<0.016	<0.017	<0.02	0.048 J	<0.015
p-Isopropyltolene	<0.014	<0.016	<0.023	<0.019	<0.019	<0.017	<0.018	<0.021	0.045 J	<0.016
sec-Btylbenzene	<0.012	<0.014	<0.019	<0.016	<0.016	<0.014	<0.015	<0.017	<0.0082	<0.014
Tetrachloroethene	<0.013	<0.015	<0.021	0.078 J	<0.018	<0.015	<0.016	<0.019	0.46	<0.015
Tolene	<0.0089	<0.01	<0.014	<0.012	<0.012	<0.01	<0.011	<0.013	<0.0061	<0.01
trans-1,2-Dichloroethene	<0.019	<0.022	<0.031	<0.025	<0.026	<0.022	<0.024	<0.028	<0.013	<0.022
Trichloroethene	<0.014	<0.016	<0.023	<0.019	<0.02	<0.017	<0.018	<0.021	<0.0099	<0.016
Vinyl Chloride	<0.008	<0.0092	<0.013	<0.01	<0.011	<0.0093	<0.01	<0.012	<0.0056	<0.0092
Total Xylenes	<0.0053	<0.006	<0.0085	<0.0069	<0.0072	<0.0061	<0.0066	<0.0077	0.06	<0.006
PCBs										
Aroclor 1242	0.011 J	0.011 J	0.019 J	0.016 J	<0.0064	<0.0055	**60**	**2,300**	**3,400**	0.11
Aroclor 1248	<0.0066	<0.0067	<0.0078	<0.0077	<0.0076	<0.0066	<1.5	<74	<130	<0.007
Aroclor 1254	<0.0036	<0.0037	<0.0043	<0.0042	<0.0042	<0.0036	<0.83	<41	<70	<0.0038
Total Detected PCBs	0.011	0.011	0.019	0.016	ND	ND	***60***	***2,300***	***3,400***	0.11

Footnotes on Page 10.

Table 1. Summary of Soil Analytical Results, Building Subsurface Investigation Summary, Madison-Kipp Corporation, 201 Waubesa Street, Madison, Wisconsin.

Boring ID	B-180			B-181				B-182		
Sample Date	**1/2/2014**	**1/2/2014**	**1/2/2014**	**1/2/2014**	**1/2/2014**	**1/2/2014**	**1/3/2014**	**1/2/2014**	**1/2/2014**	**1/2/2014**
Sample Depth (feet bls)	**0-2**	**4-6**	**14.6-16.6**	**1.5-3.5**	**4-6**	**8.4-10.4**	**18.1-20.1**	**1.2-3.2**	**5.1-7.1**	**13.5-15.5**
VOCs										
1,2,3-Trichlorobenzene	<0.042	<0.035	<0.037	<0.046	<0.039	<0.028	<0.029	<0.034	<0.034	<0.033
1,2,4-Trichlorobenzene	<0.046	0.51	0.26	<0.049	0.1 J	0.072 J	<0.031	0.078 J	0.079 J	0.13 J
1,2,4-Trimethylbenzene	0.17 J	1.6	0.72	0.58	1	0.3	0.093 J	0.21	0.17 J	0.23
1,2-Dichlorobenzene	<0.025	<0.02	<0.022	<0.027	<0.023	<0.017	<0.017	<0.02	<0.02	<0.019
1,3,5-Trimethylbenzene	0.069 J	0.44	0.18 J	0.59	0.96	0.09 J	<0.017	0.066 J	0.053 J	0.061 J
1,3-Dichlorobenzene	<0.031	0.12 J	<0.028	<0.034	<0.028	<0.021	<0.021	<0.025	<0.025	<0.024
1,4-Dichlorobenzene	<0.021	<0.017	<0.019	<0.023	<0.019	<0.014	<0.014	<0.017	<0.017	<0.016
cis-1,2-Dichloroethene	<0.015	<0.012	<0.013	<0.016	0.059 J	0.076 J	0.22	<0.012	<0.012	*0.39*
Ethylbenzene	<0.015	0.048	<0.013	<0.016	<0.014	<0.01	<0.01	<0.012	<0.012	<0.012
Isopropylbenzene	0.096 J	0.78	<0.027	0.097 J	0.12 J	<0.02	<0.021	0.11 J	0.1 J	0.064 J
Naphthalene	<0.06	0.28	0.14 J	<0.065	<0.054	0.059 J	<0.041	<0.048	<0.048	0.077 J
N-Btylbenzene	<0.016	0.43	0.27	0.083 J	0.18	0.076 J	<0.011	<0.013	<0.013	0.076 J
N-Propylbenzene	<0.021	0.2	0.085 J	0.069 J	0.096 J	<0.014	<0.014	<0.017	<0.017	<0.016
p-Isopropyltolene	<0.022	0.22	0.11 J	<0.024	0.078 J	<0.015	<0.015	<0.018	<0.018	<0.017
sec-Btylbenzene	<0.019	0.17	0.093 J	0.066 J	0.11	<0.012	<0.013	<0.015	<0.015	<0.014
Tetrachloroethene	<0.02	<0.017	1.1	0.24	0.66	1.1	3.1	0.056 J	<0.016	1.9
Tolene	<0.014	0.047	<0.012	<0.015	0.027 J	0.06	<0.0095	<0.011	<0.011	0.064
trans-1,2-Dichloroethene	<0.03	<0.025	<0.027	<0.033	<0.028	<0.02	<0.021	<0.024	<0.024	<0.024
Trichloroethene	<0.022	<0.019	<0.02	<0.024	<0.02	<0.015	0.039 J	<0.018	<0.018	0.18
Vinyl Chloride	<0.013	<0.01	<0.011	<0.014	<0.011	<0.0084	0.027	<0.01	<0.01	<0.0098
Total Xylenes	<0.0082	0.29	0.085	0.13	0.15	0.053	<0.0057	0.052	<0.0066	<0.0064
PCBs										
Aroclor 1242	**45**	**800**	**1,200**	**160**	**1,600**	**9**	**82**	**1**	**280**	**2,300**
Aroclor 1248	<1.6	<37	<36	<7.9	<75	<0.67	<3.2	<0.16	<7.1	<67
Aroclor 1254	<0.87	<20	<20	<4.3	<41	<0.37	<1.8	<0.086	<3.9	<37
Total Detected PCBs	***45***	***800***	***1,200***	***160***	***1,600***	***9***	***82***	1	***280***	***2,300***

Footnotes on Page 10.

Table 1. Summary of Soil Analytical Results, Building Subsurface Investigation Summary, Madison-Kipp Corporation, 201 Waubesa Street, Madison, Wisconsin.

Boring ID	B-183			B-184			B-185	B-186	B-187	
Sample Date	1/3/2014	1/3/2014	1/3/2014	1/3/2014	1/3/2014	1/3/2014	1/3/2014	1/3/2014	1/3/2014	1/3/2014
Sample Depth (feet bls)	1.7-3.7	8-10	17.3-19.3	2-4	14-16	18.5-20.5	1.5-3.5	2-4	1.3-3.3	8-10
VOCs										
1,2,3-Trichlorobenzene	<0.039	<0.035	<0.031	<0.037	<0.033	<0.031	<0.033	<0.042	<0.037	<0.032
1,2,4-Trichlorobenzene	<0.042	<0.038	<0.033	<0.04	<0.035	<0.033	<0.036	<0.045	<0.04	<0.035
1,2,4-Trimethylbenzene	<0.023	<0.021	<0.019	<0.022	<0.02	<0.019	<0.02	<0.025	<0.022	<0.019
1,2-Dichlorobenzene	<0.023	<0.02	<0.018	<0.022	<0.019	<0.018	<0.02	<0.024	<0.022	<0.019
1,3,5-Trimethylbenzene	<0.023	<0.021	<0.018	<0.022	<0.019	<0.018	<0.02	<0.024	<0.022	<0.019
1,3-Dichlorobenzene	<0.029	<0.026	<0.023	<0.027	<0.024	<0.023	<0.025	<0.031	<0.027	<0.023
1,4-Dichlorobenzene	<0.019	<0.017	<0.015	<0.018	<0.016	<0.015	<0.017	<0.021	<0.018	<0.016
cis-1,2-Dichloroethene	<0.014	<0.012	<0.011	<0.013	<0.012	<0.011	<0.012	<0.015	<0.013	<0.011
Ethylbenzene	<0.014	<0.013	<0.011	<0.013	<0.012	<0.011	<0.012	<0.015	<0.013	<0.012
Isopropylbenzene	<0.028	<0.025	<0.022	<0.027	<0.024	<0.022	<0.024	<0.03	<0.027	<0.023
Naphthalene	<0.055	<0.049	<0.043	<0.052	<0.046	<0.044	<0.047	<0.059	<0.052	<0.045
N-Btylbenzene	<0.014	<0.013	<0.011	<0.014	<0.012	<0.011	<0.012	<0.015	<0.014	<0.012
N-Propylbenzene	<0.019	<0.017	<0.015	<0.019	<0.016	<0.015	<0.017	<0.021	<0.018	<0.016
p-Isopropyltolene	<0.021	<0.018	<0.016	<0.02	<0.017	<0.016	<0.018	<0.022	<0.02	<0.017
sec-Btylbenzene	<0.017	<0.015	<0.014	<0.016	<0.014	<0.014	<0.015	<0.018	<0.016	<0.014
Tetrachloroethene	<0.019	<0.017	<0.015	<0.018	<0.016	<0.015	<0.016	<0.02	<0.018	<0.015
Tolene	<0.013	<0.011	<0.01	<0.012	<0.011	<0.01	<0.011	<0.014	<0.012	<0.01
trans-1,2-Dichloroethene	<0.028	<0.025	<0.022	<0.026	<0.023	<0.022	<0.024	<0.03	<0.026	<0.023
Trichloroethene	<0.021	<0.019	<0.016	<0.02	<0.017	<0.016	<0.018	<0.022	<0.02	<0.017
Vinyl Chloride	<0.012	<0.01	<0.0091	<0.011	<0.0098	<0.0092	<0.0099	<0.012	<0.011	<0.0095
Total Xylenes	<0.0076	<0.0068	<0.006	<0.0072	<0.0064	<0.006	<0.0065	<0.0081	<0.0072	<0.0062
PCBs										
Aroclor 1242	0.048	0.014 J	0.025	0.021	0.0057 J	0.024	0.053	0.57	0.012 J	0.012 J
Aroclor 1248	<0.0076	<0.0065	<0.0068	<0.0076	<0.0068	<0.0069	<0.0075	<0.016	<0.0071	<0.0067
Aroclor 1254	<0.0041	<0.0036	<0.0037	<0.0042	<0.0037	<0.0038	<0.0041	<0.0085	<0.0039	<0.0037
Total Detected PCBs	0.048	0.014	0.025	0.021	0.0057	0.024	0.053	0.57	0.012	0.012

Footnotes on Page 10.

Table 1. Summary of Soil Analytical Results, Building Subsurface Investigation Summary, Madison-Kipp Corporation, 201 Waubesa Street, Madison, Wisconsin.

Boring ID	B-187 (continued)	B-188			B-189			B-190		
Sample Date	1/3/2014	1/2/2014	1/2/2014	1/2/2014	1/15/2014	1/15/2014	1/15/2014	1/15/2014	1/15/2014	1/15/2014
Sample Depth (feet bls)	12-14	2-4	9-11	13-15	2-4	8-10	16-18	0-2	10-12	16-18
VOCs										
1,2,3-Trichlorobenzene	<0.032	<0.039	<0.03	<0.034	<0.045	<0.05	<0.047	<0.62	<0.057	<0.05
1,2,4-Trichlorobenzene	<0.034	<0.042	<0.033	<0.037	<0.049	<0.054	<0.051	<0.67	<0.061	<0.054
1,2,4-Trimethylbenzene	<0.019	<0.023	<0.018	<0.02	<0.027	<0.03	<0.028	14	<0.034	<0.03
1,2-Dichlorobenzene	<0.019	<0.023	<0.018	<0.02	<0.026	<0.029	<0.028	<0.36	<0.033	<0.029
1,3,5-Trimethylbenzene	<0.019	<0.023	<0.018	<0.02	<0.026	<0.03	<0.028	5	<0.033	<0.029
1,3-Dichlorobenzene	<0.023	<0.028	<0.022	<0.025	<0.033	<0.037	<0.035	<0.46	<0.042	<0.036
1,4-Dichlorobenzene	<0.016	<0.019	<0.015	<0.017	<0.022	<0.025	<0.023	<0.31	<0.028	<0.025
cis-1,2-Dichloroethene	<0.011	<0.014	<0.011	<0.012	<0.016	<0.018	<0.017	120	<0.02	<0.017
Ethylbenzene	<0.011	<0.014	<0.011	<0.012	<0.016	<0.018	<0.017	0.6	<0.02	<0.018
Isopropylbenzene	<0.023	<0.028	<0.022	<0.024	<0.032	<0.036	<0.034	1.4 J	<0.041	<0.036
Naphthalene	<0.045	<0.055	<0.043	<0.048	<0.063	<0.071	<0.067	2.1 J	<0.08	<0.07
N-Btylbenzene	<0.012	<0.014	<0.011	<0.012	<0.017	<0.019	<0.017	4.6	<0.021	<0.018
N-Propylbenzene	<0.016	<0.019	<0.015	<0.017	<0.022	<0.025	<0.024	3.9	<0.028	<0.025
p-Isopropyltolene	<0.017	<0.02	<0.016	<0.018	<0.024	<0.027	<0.025	2.8 J	<0.03	<0.026
sec-Btylbenzene	<0.014	<0.017	<0.013	<0.015	<0.02	<0.022	<0.021	2.6	<0.025	<0.022
Tetrachloroethene	<0.015	0.15	<0.015	<0.016	0.35	<0.024	<0.023	**2,400**	1.4	0.4
Tolene	<0.01	<0.013	<0.01	<0.011	<0.015	<0.017	<0.016	<0.2	<0.019	<0.016
trans-1,2-Dichloroethene	<0.023	<0.028	<0.022	<0.024	<0.032	<0.036	<0.034	4.7	<0.04	<0.035
Trichloroethene	<0.017	<0.021	<0.016	<0.018	<0.024	<0.027	<0.025	**150**	0.041 J	<0.026
Vinyl Chloride	<0.0094	<0.012	<0.0091	<0.01	<0.013	<0.015	<0.014	<0.19	<0.017	<0.015
Total Xylenes	<0.0062	<0.0076	<0.006	<0.0066	<0.0088	<0.0098	<0.0092	2.8	<0.011	<0.0097
PCBs										
Aroclor 1242	0.15	**1.4**	<0.0057	<0.0058	<0.0069	0.0088 J	0.014 J	0.3	<0.0055	<0.0059
Aroclor 1248	<0.0068	<0.07	<0.0069	<0.0069	<0.0083	<0.0068	<0.0069	<0.0077	<0.0066	<0.007
Aroclor 1254	<0.0037	<0.038	<0.0038	<0.0038	<0.0045	<0.0037	<0.0038	<0.0042	<0.0036	<0.0039
Total Detected PCBs	0.15	***1.4***	ND	ND	ND	0.0088	0.014	0.3	ND	ND

Footnotes on Page 10.

Table 1. Summary of Soil Analytical Results, Building Subsurface Investigation Summary, Madison-Kipp Corporation, 201 Waubesa Street, Madison, Wisconsin.

Boring ID	B-191			B-192			B-193			B-194
Sample Date	1/4/2014	1/4/2014	1/4/2014	1/15/2014	1/15/2014	1/15/2014	2/27/2014	2/27/2014	2/27/2014	2/27/2014
Sample Depth (feet bls)	2-4	13.7-15.7	17.3-19.3	0-2	10-12	16-18	0-2	12-14	18-20	2-4
VOCs										
1,2,3-Trichlorobenzene	<0.036	<0.029	<0.032	<0.055	<0.063	<0.055	<0.039 *	<0.032 *	<0.03 *	<0.038 *
1,2,4-Trichlorobenzene	<0.038	<0.032	<0.034	<0.059	<0.068	<0.06	<0.042 *	<0.035 *	<0.032 *	<0.041 *
1,2,4-Trimethylbenzene	<0.021	<0.018	<0.019	<0.033	<0.038	<0.033	<0.023	<0.019	<0.018	<0.023
1,2-Dichlorobenzene	<0.021	<0.017	<0.019	<0.032	<0.037	<0.032	<0.023	<0.019	<0.018	<0.022
1,3,5-Trimethylbenzene	<0.021	<0.017	<0.019	<0.032	<0.037	<0.032	<0.023	<0.019	<0.018	<0.022
1,3-Dichlorobenzene	<0.026	<0.021	<0.023	<0.04	<0.046	<0.04	<0.028	<0.024	<0.022	<0.028
1,4-Dichlorobenzene	<0.018	<0.015	<0.016	<0.027	<0.031	<0.027	<0.019	<0.016	<0.015	<0.019
cis-1,2-Dichloroethene	<0.012	<0.01	<0.011	<0.019	<0.022	<0.019	<0.014	<0.011	<0.011	<0.013
Ethylbenzene	<0.013	<0.011	<0.011	<0.02	<0.023	<0.02	<0.014	<0.012	<0.011	<0.014
Isopropylbenzene	<0.025	<0.021	<0.023	<0.039	<0.045	<0.04	<0.028	<0.023	<0.022	<0.027
Naphthalene	<0.05	<0.041	<0.045	<0.077	<0.088	<0.078	<0.054 *	<0.045 *	<0.042 *	<0.054 *
N-Btylbenzene	<0.013	<0.011	<0.012	<0.02	<0.023	<0.02	<0.014	<0.012	<0.011	<0.014
N-Propylbenzene	<0.018	<0.015	<0.016	<0.027	<0.031	<0.028	<0.019	<0.016	<0.015	<0.019
p-Isopropyltolene	<0.019	<0.015	<0.017	<0.029	<0.033	<0.029	<0.02	<0.017	<0.016	<0.02
sec-Btylbenzene	<0.016	<0.013	<0.014	<0.024	<0.028	<0.024	<0.017	<0.014	<0.013	<0.017
Tetrachloroethene	<0.017	<0.014	<0.015	0.22	0.2	1.2	0.15	0.071 J	<0.014	0.055 J
Tolene	<0.012	0.055	<0.01	<0.018	<0.021	<0.018	<0.013	<0.011	<0.0099	0.03
trans-1,2-Dichloroethene	<0.025	<0.021	<0.023	<0.039	<0.045	<0.039	<0.028	<0.023	<0.021	<0.027
Trichloroethene	<0.019	<0.016	<0.017	<0.029	<0.033	<0.029	<0.02	<0.017	<0.016	<0.02
Vinyl Chloride	<0.011	<0.0087	<0.0094	<0.016	<0.019	<0.016	<0.011 *	<0.0095 *	<0.0089 *	<0.011 *
Total Xylenes	<0.0069	<0.0057	<0.0062	<0.011	<0.012	<0.011	<0.0075	<0.0063	<0.0059	<0.0075
PCBs										
Aroclor 1242	**6.1**	0.0093 J	0.0075 J	**35**	0.015 J	<0.0058	0.017 J	<0.029	<0.0058	<0.0066
Aroclor 1248	<0.36	<0.0067	<0.0069	<1.6	<0.0069	<0.0069	<0.0077	0.75	<0.0069	<0.0079
Aroclor 1254	<0.2	<0.0037	<0.0038	<0.87	<0.0038	<0.0038	<0.0042	<0.019	<0.0038	<0.0043
Total Detected PCBs	***6.1***	0.0093	0.0075	***35***	0.015	ND	0.017	0.75	ND	ND

Footnotes on Page 10.

Table 1. Summary of Soil Analytical Results, Building Subsurface Investigation Summary, Madison-Kipp Corporation, 201 Waubesa Street, Madison, Wisconsin.

Boring ID	B-194 (continued)		B-195		
Sample Date	2/27/2014	2/27/2014	2/27/2014	2/27/2014	2/27/2014
Sample Depth (feet bls)	8-10	20-21	0-2	10-12	18-20
VOCs					
1,2,3-Trichlorobenzene	<0.032 *	<0.027 *	<0.035 *	<0.033 *	<0.028 *
1,2,4-Trichlorobenzene	<0.034 *	<0.029 *	<0.038 *	<0.036 *	<0.031 *
1,2,4-Trimethylbenzene	<0.019	<0.016	<0.021	<0.02	<0.017
1,2-Dichlorobenzene	<0.019	<0.016	<0.021	<0.019	<0.017
1,3,5-Trimethylbenzene	<0.019	<0.016	<0.021	<0.019	<0.017
1,3-Dichlorobenzene	<0.023	<0.02	<0.026	<0.024	<0.021
1,4-Dichlorobenzene	<0.016	<0.013	<0.018	<0.016	<0.014
cis-1,2-Dichloroethene	<0.011	<0.0094	<0.012	<0.012	<0.01
Ethylbenzene	<0.011	<0.0096	<0.013	<0.012	<0.01
Isopropylbenzene	<0.023	<0.019	<0.025	<0.024	<0.02
Naphthalene	<0.045 *	<0.038 *	<0.05 *	<0.047 *	<0.04 *
N-Btylbenzene	<0.012	<0.0099	<0.013	<0.012	<0.01
N-Propylbenzene	<0.016	<0.013	<0.018	<0.017	<0.014
p-Isopropyltolene	<0.017	<0.014	<0.019	<0.017	<0.015
sec-Btylbenzene	<0.014	<0.012	<0.016	<0.015	<0.013
Tetrachloroethene	<0.015	<0.013	0.11	<0.016	<0.014
Tolene	<0.01	<0.0088	<0.012	<0.011	<0.0093
trans-1,2-Dichloroethene	<0.023	<0.019	<0.025	<0.024	<0.02
Trichloroethene	<0.017	<0.014	<0.019	<0.018	<0.015
Vinyl Chloride	<0.0094 *	<0.0080 *	<0.011 *	<0.0098 *	<0.0084 *
Total Xylenes	<0.0062	<0.0052	<0.0069	<0.0065	<0.0056
PCBs					
Aroclor 1242	0.18	<0.0057	<0.0066	<0.0055	<0.0058
Aroclor 1248	<0.0067	<0.0068	0.045	<0.0066	<0.0070
Aroclor 1254	<0.0037	<0.0037	<0.0043	<0.0036	<0.0038
Total Detected PCBs	0.18	ND	0.045	ND	ND

Footnotes on Page 10.

Table 1. Summary of Soil Analytical Results, Building Subsurface Investigation Summary, Madison-Kipp Corporation, 201 Waubesa Street, Madison, Wisconsin.

Only detected constituents are noted. Constituent concentrations are reported as milligrams per kilogram (mg/kg).

100	Exceeds the WDNR's industrial direct contact RCL.
100	Exceeds the USEPA's self-implementing high-occupancy cleanup level with no site restrictions.
100	Exceeds the Toxic Substance Control Act disposal limit.
*	Laboratory Control Spike or Laboratory Control Spike Duplicate exceeds the control limits.
<	Constituent not detected above noted laboratory detection limit.
bls	Below land surface
J	Constituent concentration is an approximate value.
ND	Total PCBs less than the laboratory detection limit.
NE	Criteria not established.
PCBs	Polychlorinated biphenyls.
RCL	Residual contaminant level.
TSCA	Toxic Substance Control Act.
USEPA	United States Environmental Protection Agency.
VOCs	Volatile organic compounds.
WDNR	Wisconsin Department of Natural Resources.

Waubesa St
Bike Path
HISTORIC PCE AST
B-173
B-172
HISTORIC WASH TANKS
B-171
B-170
OIL SHED
B-192
B-190
B-134
B-136
B-135
B-189
B-138
B-137
HISTORIC HEAT TREATMENT QUENCH AREA
HISTORIC OIL STORAGE
B-174
B-193
B-194
HISTORIC COOLING WATER PIT
B-145
B-140
HISTORIC WASH TANKS
B-195
B-139
B-146
B-141
B-169
B-142
HISTORIC WASH TANKS
HISTORIC WASH TANKS
B-147
B-168
B-179
B-144
B-143
HISTORIC PROCESS PIPING TRENCH FOR DIE CASTINGS OPERATION
B-148
B-183
B-178
B-180
B-184
B-177
B-149
B-167
B-181
MW-22S
MW-22D
B-176
B-150
B-185
B-166
B-182
B-165
B-175
B-151
B-158
B-191
HISTORIC DIE LUBE AREA
B-162
B-159
B-164
MW-23D
B-160
MW-23S
B-186
B-163
B-152
B-188
PCB TRANSFORMERS
B-161
B-187
CHEMICAL STORAGE AREA
B-155
B-156
B-153
B-157
PRESSURE WASH SPRAY BOOTH
B-154
Marquette St
Fairview St
Atwood Ave

LEGEND

- SOIL BORING
- MONITORING WELL
- PARCELS
- BUILDING FOOTPRINTS
- BUILDING FEATURE

0 80 160
Feet

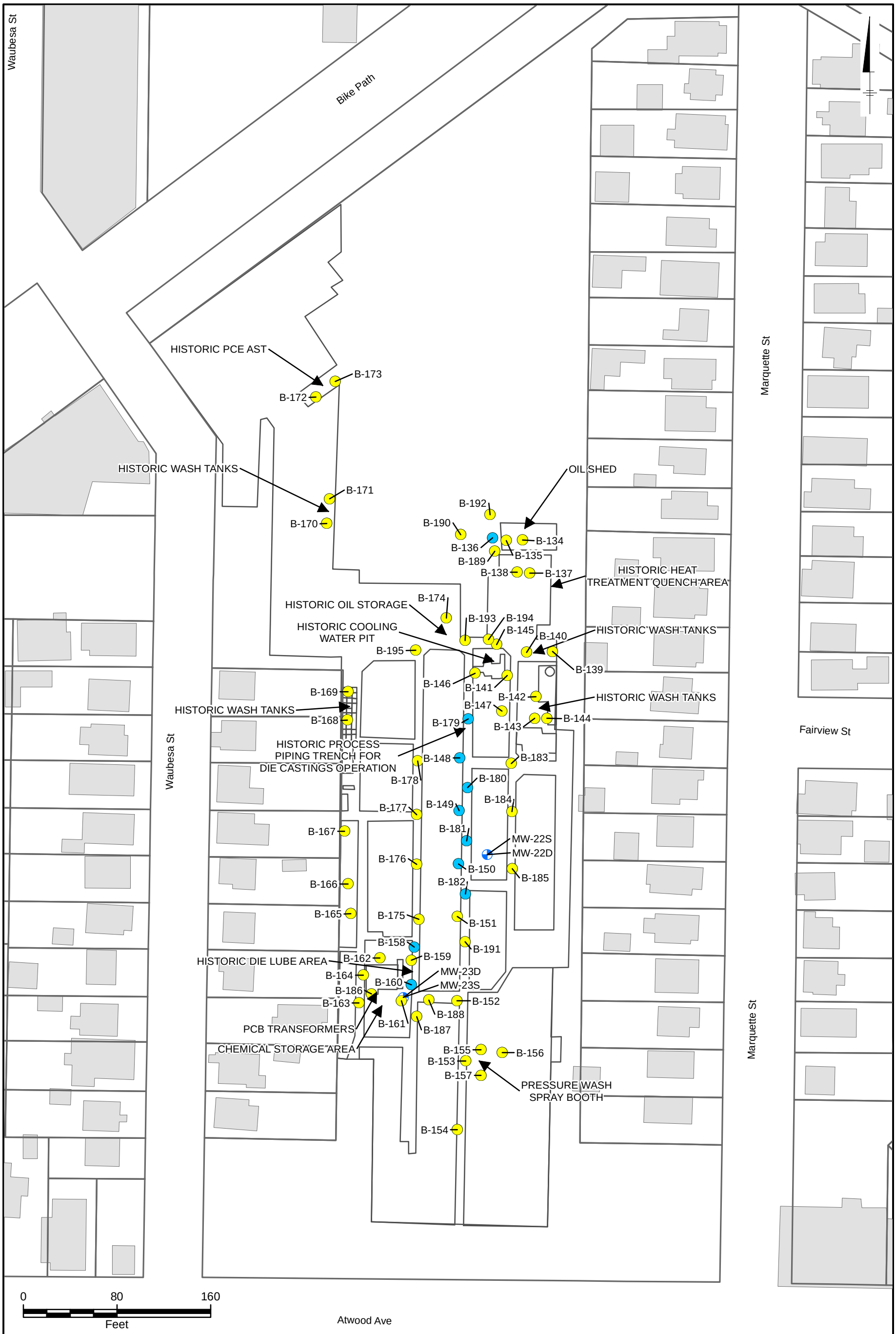
MADISON-KIPP CORPORATION
201 WAUBESA STREET
MADISON, WISCONSIN

SOIL BORING AND WELL LOCATIONS BUILDING INVESTIGATION

ARCADIS

FIGURE 1

CITY: MKE DIV/GROUP: IM DB: GM LD: CK MADISON-KIPP
G:\GIS\Projects\MadisonKipp\ArcMap\2014-04\Fig1_SBandMWLocations_20140422.mxd



LEGEND

- TOTAL DETECTED PCB CONCENTRATION REPORTED ABOVE THE TOXIC SUBSTANCE CONTROL ACT DISPOSAL LIMIT OF 50 PARTS PER MILLION
- TOTAL DETECTED PCB CONCENTRATION REPORTED BELOW THE TOXIC SUBSTANCE CONTROL ACT DISPOSAL LIMIT OF 50 PARTS PER MILLION

PCBs - POLYCHLORINATED BIPHENYLS

- MONITORING WELL
- PARCELS
- BUILDING FOOTPRINTS
- BUILDING FEATURE

MADISON-KIPP CORPORATION
201 WAUBESA STREET
MADISON, WISCONSIN

SOIL LOCATIONS ABOVE TSCA DISPOSAL LIMIT

ARCADIS

FIGURE
2

CITY: MKE DIV/GROUP: IM DB: GM LD: CK MADISON-KIPP
G:\GIS\Projects\MadisonKipp\ArcMap\2014-04\Fig2_Soil_Above_TSCA_Limits_20140422.mxd

Waubesa St
Bike Path
HISTORIC PCE AST
B-173
B-172
HISTORIC WASH TANKS
B-171
B-170
OIL SHED
B-192
B-190
B-134
B-136
B-135
B-189
B-138
B-137
HISTORIC HEAT TREATMENT QUENCH AREA
HISTORIC OIL STORAGE
B-174
HISTORIC COOLING WATER PIT
B-193
B-194
B-145
B-140
HISTORIC WASH TANKS
B-195
B-139
B-146
B-141
B-169
B-142
HISTORIC WASH TANKS
HISTORIC WASH TANKS
B-147
B-168
B-179
B-144
B-143
HISTORIC PROCESS PIPING TRENCH FOR DIE CASTINGS OPERATION
B-148
B-183
B-178
B-180
B-184
B-149
B-177
B-181
B-167
MW-22S
MW-22D
B-176
B-150
B-185
B-166
B-182
B-165
B-175
B-151
B-158
B-191
HISTORIC DIE LUBE AREA
B-162
B-159
B-164
MW-23D
B-160
MW-23S
B-186
B-163
B-152
B-188
PCB TRANSFORMERS
B-161
B-187
CHEMICAL STORAGE AREA
B-155
B-156
B-153
B-157
PRESSURE WASH SPRAY BOOTH
B-154
Marquette St
Fairview St
Atwood Ave

LEGEND

TOTAL POLYCHLORINATED BIPHENYL ISOCONCENTRATION CONTOUR MILLIGRAMS PER KILOGRAM (MG/KG)

- 0.744
- 1
- 50
- 500
- 5,000
- 10,000

- SOIL BORING
- MONITORING WELL
- PARCELS
- BUILDING FOOTPRINTS
- BUILDING FEATURE

0 40 80
Feet

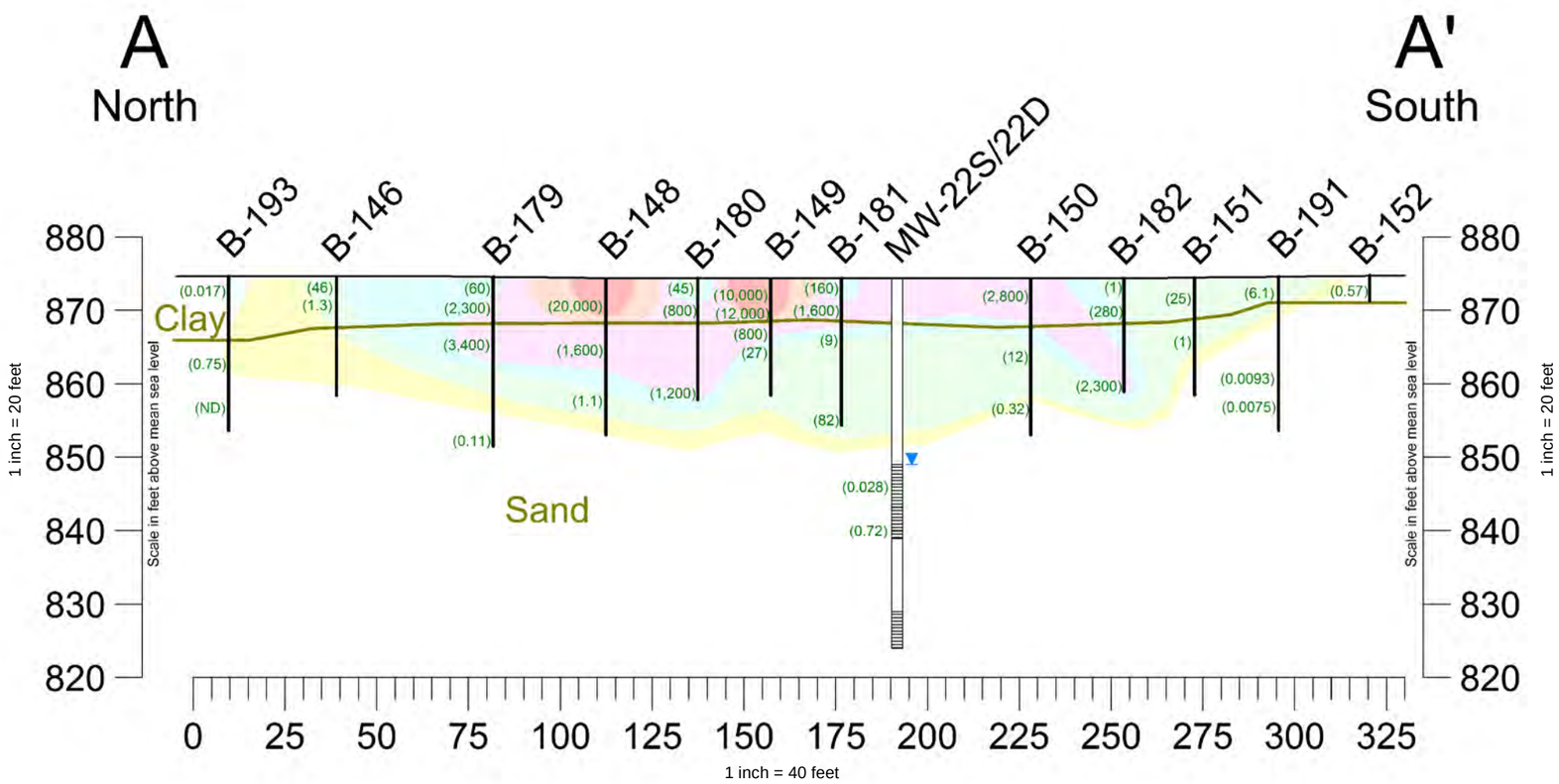
MADISON-KIPP CORPORATION
201 WAUBESA STREET
MADISON, WISCONSIN

TOTAL PCB ISOCONCENTRATION MAP

ARCADIS

FIGURE
3

CITY: MKE DIV/GROUP: IM DB: GM LD: CK MADISON-KIPP
G:\GIS\Projects\MadisonKipp\ArcMap\2014-04\Fig3_PCB_Iso_Map_20140422.mxd



Total Polychlorinated Biphenyl Isoconcentration Contour (mg/kg)

- >0.744 to 1
- 1 to 49
- 50 to 499
- 500 to 4,999
- 5000 to 9,999
- 10,000 to 20,000

LEGEND

- Well Screen
- Water Table Elevation for MW-22S in October 2013
- (27) Total Polychlorinated Biphenyl Concentration in mg/kg
- Geologic Contact

NOTE:
Vertical exaggeration = 2x

MADISON-KIPP CORPORATION
201 WAUBESA STREET
MADISON, WISCONSIN

INTERIOR BUILDING TRENCH CROSS SECTION TOTAL PCBS

ARCADIS

FIGURE 4

CITY: MPLS DIV/GROUP: IM/DV DB: MG LD: TS MADISON-KIPP
G:\GIS\Projects\MadisonKipp\ArcMap\2014-04\Fig4_Oct2013_PCB_Trench_20140422.mxd

Appendix A

Submittal Certification

ARCADIS

Submittal Certification

This attachment was prepared to satisfy the requirements of Wisconsin Administrative Code Chapter NR 712.09 and is applicable to the following document.

Supplemental Building Interior Polychlorinated Biphenyl Work Plan Subsurface Investigation Summary
Madison-Kipp Corporation
201 Waubesa Street
Madison, Wisconsin

I, Christopher D. Kubacki, hereby certify that I am a registered professional engineer in the State of Wisconsin, registered in accordance with the requirements of ch. A-E 4, Wis. Adm. Code; that this document has been prepared in accordance with the Rules of Professional Conduct in ch. A-E 8, Wis. Adm. Code; and that, to the best of my knowledge, all information contained in this document is correct and the document was prepared in compliance with all applicable requirements in chs. NR 700 to 726, Wis. Adm. Code.

WISCONSIN
CHRISTOPHER D. KUBACKI
E-37734
WAUWATOSA
WI
PROFESSIONAL ENGINEER

Signature, title and P.E. number

Stamp

I, Bruce W. Evans, hereby certify that I am a hydrogeologist as that term is defined in s. NR 712.03 (1), Wis. Adm. Code, am registered in accordance with the requirements of ch. GHSS 2, Wis. Adm. Code, or licensed in accordance with the requirements of ch. GHSS 3, Wis. Adm. Code, and that, to the best of my knowledge, all of the information contained in this document is correct and the document was prepared in compliance with all applicable requirements in chs. NR 700 to 726, Wis. Adm. Code.

Signature and title

22 Apr 14
Date

WISCONSIN
BRUCE W. EVANS
484-013
MILWAUKEE, WI
PROFESSIONAL GEOLOGIST

Appendix B

Soil Boring and Abandonment Forms

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION
Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☒ Other ☐

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Madison-Kipp Corporation		**B-136A**

Boring Drilled By:	Date Drilling Started	Date Drilling Completed	Drilling Method
Name: **Charles Rens** Firm: **Giles Engineering**	**1/15/2014**	**1/15/2014**	**Direct Push**

WI Unique Well No.	DNR Well ID No.	Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet MSL	**871.44** Feet MSL	**2** inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☒
State Plane **400039.90** N **2144129.82** E Lat
of Section **5** , T **7** N, R **10 E** Long

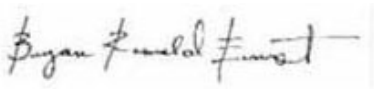
Local Grid Location
☐ N ☐ E
Feet ☐ S Feet ☐ W

Facility ID	County	County Code	Civil Town/City/or Village
113125320	**Dane**	**13**	**City of Madison**

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID (ppm)	Compressive Strength	Soil Properties: Moisture Content	Soil Properties: Liquid Limit	Soil Properties: Placticity Index	Soil Properties: P 200	RQD/ Comments
			0.0	0.0 - 0.4' CONCRETE	CONCRETE									
				0.4 - 1.6' SILT: little clay, trave very fine sand, trace 1/8-1/4" vesicular black slag, dry and crumbly, no plasticity, hard (HP=>5.0), pockets of orange staining, strong odor, very dark brown (10YR 2/2)	ML			572.0						
			1.0											
				1.6 - 2.4' SILT: little clay, trave very fine sand, trace 1/8-1/4" vesicular black slag, dry and crumbly, no plasticity, hard (HP=>5.0), pockets of orange staining, strong odor, grayish brown (10YR 5/2)	ML									
	60		2.0		CL									
				2.4 - 5.0' CLAY: some silt, no plasticity, dry to moist, hard (HP=>5.0), silt seams throughout with orange staining, pockets of black streaks, strong odor, dark greenish gray (GLEY 4/1)				479.0						
			3.0											
			4.0											
				5.0 - 5.2' CLAY: some silt, no plasticity, dry to moist, hard (HP=>5.0), silt seams throughout with orange staining, pockets of black streaks, strong odor, dark greenish gray (GLEY 4/1)	CL			274.0						
			5.0											
				5.2 - 6.2' SAND: very fine to fine grained, some silt, little clay, poorly sorted, orange and black streaks throughout, moist, dark yellowish brown (10YR 4/6)	SW									
			6.0											
				6.2 - 10.0' SAND: very fine to fine grained, trace silt, little 1/2-3/4" gravel, fractured dolomite, poorly sorted, moist, brownish yellow (10YR 6/6)	SW			44.7						
	34.8		7.0											
			8.0											
			9.0											
			10.0	10.0 - 15.0'	SW									

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID	Compressive Strength	Soil Properties: Moisture Content	Soil Properties: Liquid Limit	Soil Properties: Placticity Index	Soil Properties: P 200	RQD/ Comments
	28.8		11.0 12.0 13.0 14.0 15.0	SAND: very fine to fine grained, trace silt, little 1/2-3/4" gravel, fractured dolomite, poorly sorted, moist, brownish yellow (10YR 6/6)				21.5						
	24		16.0 17.0 18.0 19.0 20.0 21.0 22.0	15.0 - 22.0' SAND: very fine to fine grained, trace silt, little 1/2-3/4" gravel, fractured dolomite, poorly sorted, moist, brownish yellow (10YR 6/6)	SW			17.7 11.0						

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature 

Firm ARCADIS
126 N. Jefferson St., Suite 400
Milwaukee, WI (414) 276-7742

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION
Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☒ Other ☐

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Madison-Kipp Corporation		**B-148A**

Boring Drilled By:	Date Drilling Started	Date Drilling Completed	Drilling Method
Name: **Charles Rens** Firm: **Giles Engineering**	**1/2/2014**	**1/2/2014**	**Direct Push**

WI Unique Well No.	DNR Well ID No.	Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet MSL	**874.42** Feet MSL	**2** inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☒
State Plane **399851.90** N **2144101.94** E Lat
of Section **5** , T **7** N, R **10 E** Long

Local Grid Location
☐ N ☐ E
Feet ☐ S Feet ☐ W

Facility ID	County	County Code	Civil Town/City/or Village
113125320	**Dane**	**13**	**City of Madison**

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID (ppm)	Compressive Strength	Soil Properties: Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
	40.8		0.0	0.0 - 0.6' CONCRETE	CONCRETE									
			1.0	0.6 - 3.4' CLAY: some to 50 percent silt, stiff to very stiff (HP=1.5-3.0), low to no plasticity, crumbly, slightly moist, odor, brown (10YR 4/3)	CL-ML			120						
			2.0											
			3.0					200						
				3.4 - 6.8' CLAY: some silt, very stiff (HP=3.0), low to no plasticity, crumbly, slightly moist, odor, brown (10YR 4/3)	CL-ML									
			4.0											
	57.6		5.0					88.5						
			6.0											
			7.0	6.8 - 7.6' SAND CLAY: very fine sand, clay content decreases with depth, stiff (HP=1.5), low to no plasticity, moist, odor, brown (10YR 4/3)	SC			58.3						
				7.6 - 8.8' SAND: very fine, trace clay, trace gravel, stiff (HP=2.0), poorly sorted, slightly moist to moist, odor, dark yellowish brown (10YR 4/6)	SW									
			8.0											
				8.8 - 9.0' SAND: very fine, little rock fragments, trace fine gravel, soft (HP=0.5), poorly sorted, slightly moist, odor, yellowish brown (10YR 5/6)	SW									
			9.0	9.0 - 15.5' SAND: very fine, little rock fragments, trace fine	SW			56.7						

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID	Compressive Strength	Soil Properties: Moisture Content	Soil Properties: Liquid Limit	Soil Properties: Placticity Index	Soil Properties: P 200	RQD/ Comments
	36		10.0 – 11.0	gravel, soft (HP=0.5), poorly sorted, slightly moist, odor, yellowish brown (10YR 5/6)				46.3						
	42		12.0 – 15.0					65.7						
	42		15.5 – 21.0	15.5 - 21.0' SAND: very fine, little rock fragments, trace fine gravel, soft (HP=0.5), poorly sorted, slightly moist, slight odor, yellowish brown (10YR 5/6)	SW			78.3 113 151						

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature

Firm ARCADIS
126 N. Jefferson St., Suite 400
Milwaukee, WI (414) 276-7742

This form is authorized by Chapters 281, 283, 289, 291, 293, and 299, Wis. Stats. Completion of this form is mandatory. Failure to file this form may result in forfeiture of between $10 and $25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. NOTE: See instructions for more information, including where the completed form should be sent.

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION
Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☒ Other ☐

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Madison-Kipp Corporation		**B-149A**

Boring Drilled By:	Date Drilling Started	Date Drilling Completed	Drilling Method
Name: **Charles Rens** Firm: **Giles Engineering**	**1/2/2014**	**1/2/2014**	**Direct Push**

WI Unique Well No.	DNR Well ID No.	Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet MSL	**874.45** Feet MSL	**2** inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☒
State Plane **399806.91** N **2144101.19** E Lat
of Section **5** , T **7** N, R **10 E** Long

Local Grid Location
☐ N ☐ E
Feet ☐ S Feet ☐ W

Facility ID	County	County Code	Civil Town/City/or Village
113125320	**Dane**	**13**	**City of Madison**

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID (ppm)	Compressive Strength	Soil Properties: Moisture Content	Liquid Limit	Placticity Index	P 200	RQD/ Comments
			0.0	0.0 - 0.5' CONCRETE	CONCRETE									
				0.5 - 2.0' CLAY: some silt, stiff to very stiff (HP=1.5-3.0), low plasticity, stained, slightly moist, odor, dark grayish brown (10YR 4/2)	CL-ML			268						
	48		1.0											
			2.0	2.0 - 4.0' CLAY: some silt, very stiff (HP=3.0), low plasticity, slightly moist, slight odor, dark yellowish brown (10YR 4/4)	CL-ML			83.8						
			3.0											
			4.0	4.0 - 9.3' CLAY: some very fine sand, sand increasing with depth, sand seam at 6.5 feet (stained gray), medium stiff (HP-1.25), low to no plasticity, slightly moist, slight odor, dark yellowish brown (10YR 4/4)	CL-SP			103						
			5.0											

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID	Compressive Strength	Soil Properties: Moisture Content	Soil Properties: Liquid Limit	Soil Properties: Placticity Index	Soil Properties: P 200	RQD/ Comments
	48		6.0											
			7.0					43.2						
			8.0											
			9.0					94.8						
	40.8		10.0	9.3 - 10.1' CLAY: some very fine sand, sand increasing with depth, stiff (HP-1.25), low to no plasticity, slightly moist, odor, dark yellowish brown (10YR 4/4)	CL-SP									
			11.0	10.1 - 11.4' CLAY: some very fine sand, sandstone fragments, medium stiff (HP=1.25), low to no plasticity, slightly moist, odor, dark yellowish brown (10YR 4/4)	CL-SP			51.5						
			12.0	11.4 - 12.0' SAND: very fine, trace gravel, loose, moderately sorted, dry, odor, brownish yellow (10YR 6/6). Refusal at 12 feet	SW									

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature 

Firm ARCADIS
126 N. Jefferson St., Suite 400
Milwaukee, WI (414) 276-7742

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION
Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☒ Other ☐

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Madison-Kipp Corporation		**B-150A**

Boring Drilled By:	Date Drilling Started	Date Drilling Completed	Drilling Method
Name: **Charles Rens** Firm: **Giles Engineering**	**1/2/2014**	**1/2/2014**	**Direct Push**

WI Unique Well No.	DNR Well ID No.	Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet MSL	**874.48** Feet MSL	**2** inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☒
State Plane **399761.17** N **2144100.71** E Lat
of Section **5** , T **7** N, R **10 E** Long

Local Grid Location
☐ N ☐ E
Feet ☐ S Feet ☐ W

Facility ID	County	County Code	Civil Town/City/or Village
113125320	**Dane**	**13**	**City of Madison**

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID (ppm)	Compressive Strength	Soil Properties: Moisture Content	Soil Properties: Liquid Limit	Soil Properties: Plasticity Index	Soil Properties: P 200	RQD/ Comments
	31.2		0.0 1.0 2.0	0.0 - 2.5' CONCRETE	CONCRETE									
			3.0	2.5 - 4.0' No recovery	BLANK									
	34.8		4.0 5.0 6.0	4.0 - 5.7' CLAY: little very fine sand, little silt, stiff (HP=2.0), low plasticity, moist, odor, very dark grey (10YR 3/1)	CL			82.2						
				5.7 - 6.6' SAND: very fine, little silt, little fine gravel, trace sandstone fragments, medium stiff (HP=1.0), poorly sorted, dry to slight moist, odor, light yellowish brown (10YR 6/4)	SM									
			7.0	6.6 - 8.8' SAND: very fine, little silt, little fine gravel, trace sandstone fragments, medium stiff (HP=1.0), poorly sorted, dry to slight moist, odor, light yellowish brown (10YR 6/4)	SM			75.4						
			8.0 9.0	8.8 - 9.6' SAND: very fine, little silt, little fine gravel, trace sandstone fragments, medium stiff (HP=1.0), poorly sorted, dry to slight moist, odor, light yellowish brown (10YR 6/4)	SM			542						

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID	Compressive Strength	Soil Properties: Moisture Content	Soil Properties: Liquid Limit	Soil Properties: Placticity Index	Soil Properties: P 200	RQD/ Comments
	50.4		10.0	9.6 - 10.0' GRAVEL: coarse	GW									
			11.0	10.0 - 12.0' SAND: very fine, little silt, little fine gravel, trace sandstone fragments, medium stiff (HP=1.25), poorly sorted, dry to slight moist, odor, light yellowish brown (10YR 6/4)	SM									
			12.0	12.0 - 16.0' SAND: very fine, little silt, little fine gravel, slag from 13.7 to 13.9 feet, stiff (HP=1.5), poorly sorted, dry to slight moist, odor, light yellowish brown (10YR 6/4)	SM			91.9						
			16.0	16.0 - 21.0' SAND: very fine, little silt, little fine gravel, soft (HP=0.5), poorly sorted, dry to slight moist, odor, light yellowish brown (10YR 6/4)	SM			81						
			18.0											
			19.0					149						
			20.0											
			21.0											

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature

Firm ARCADIS
126 N. Jefferson St., Suite 400
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State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION
Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☒ Other ☐

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Madison-Kipp Corporation		**B-158A**

Boring Drilled By:	Date Drilling Started	Date Drilling Completed	Drilling Method
Name: **Charles Rens** Firm: **Giles Engineering**	**12/30/2013**	**12/30/2013**	**Direct Push**

WI Unique Well No.	DNR Well ID No.	Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet MSL	**874.51** Feet MSL	**2** inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☒
State Plane **399690.39** N **2144062.81** E Lat
of Section **5** , T **7** N, R **10 E** Long

Local Grid Location
☐ N ☐ E
Feet ☐ S Feet ☐ W

Facility ID	County	County Code	Civil Town/City/or Village
113125320	**Dane**	**13**	**City of Madison**

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID (ppm)	Compressive Strength	Soil Properties: Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			0.0	0.0 - 0.6' CONCRETE	CONCRETE									
			1.0	0.6 - 1.5' CLAY: little to some sand, trace fine gravel, subround, soft to crumbly, little to no plasticity, slightly moist, yellowish brown (10YR 5/6)	CL			20.9						
			2.0	1.5 - 2.1' CLAY: trace to little silt, very stiff (HP=2.5), low plasticity, slight moist, very dark grayish brown (10YR 3/2)	CL			21.3						
	40.8		3.0	2.1 - 5.2' CLAY: little silt, slightly crumbly, very stiff (HP=2.0), low plasticity, slightly moist, moderate odor, dark gray (10YR 4/1)	CL			24.8						
			5.0											
			6.0	5.2 - 6.5' CLAY SAND: very fine sand, trace to little silt, stiff (HP=1.5), no to low plasticity, slightly moist to moist, very dark gray (10YR 3/1)	CL-SP			21.7						
	48		7.0	6.5 - 8.1' CLAY SAND: little silt, medium stiff (HP=1.0), crumbly, no plasticity, stained, slightly moist, odor, very dark gray (10YR 3/1)	CL-SP			22.9						

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID	Compressive Strength	Soil Properties: Moisture Content	Soil Properties: Liquid Limit	Soil Properties: Placticity Index	Soil Properties: P 200	RQD/ Comments
			8.0											
				8.1 - 9.0' SAND: very fine, trace fine gravel, subround, gravel increases with depth, medium stiff (HP=1.0), poorly sorted, dry to slightly moist, odor, brownish yellow (10YR 6/6)	SW			454						
	36		9.0	9.0 - 12.0' SAND: very fine, little coarse gravel, subangular, trace silt, soft (HP=0.5), poorly sorted, slightly moist, odor, brownish yellow (10YR 6/6)	SW			154						
			10.0											
			11.0					293						
			12.0	12.0 - 15.0' SAND: very fine, little silt, little medium gravel, subround, stiff (HP=1.25), poorly sorted, moist, odor, yellowish brown (10YR 5/6)	SM									
	36		13.0					46						
			14.0											
			15.0	15.0 - 17.0' SAND: very fine, little silt, little medium gravel, subround, stiff (HP=1.25), poorly sorted, moist, odor, grayish brown (10YR 5/2) from 16.8-17 feet. Refusal at 17 feet	SM			57.9						
	12		16.0					51.2						
			17.0											

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature 

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State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION
Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☒ Other ☐

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Madison-Kipp Corporation		**B-160A**

Boring Drilled By:	Date Drilling Started	Date Drilling Completed	Drilling Method
Name: **Charles Rens** Firm: **Giles Engineering**	**1/3/2014**	**1/3/2014**	**Direct Push**

WI Unique Well No.	DNR Well ID No.	Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet MSL	**874.56** Feet MSL	**2** inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☒
State Plane **399657.91** N **2144060.38** E Lat
of Section **5** , T **7** N, R **10 E** Long

Local Grid Location
☐ N ☐ E
Feet ☐ S Feet ☐ W

Facility ID	County	County Code	Civil Town/City/or Village
113125320	**Dane**	**13**	**City of Madison**

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID (ppm)	Compressive Strength	Soil Properties: Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			0.0	0.0 - 0.6' CONCRETE	CONCRETE									
			1.0	0.6 - 2.6' CLAY: little silt, hard (HP=4.5), low to no plasticity, dry, dark yellowish brown (10YR 4/6)	CL			52.6						
	48		2.0											
			3.0	2.6 - 4.0' CLAY SAND: very fine, little silt, trace coarse gravel, subround, stiff (HP=1.5-2.0), low plasticity, dry, trace odor, dark yellowish brown (10YR 4/6)	CL-SP			76.2						
			4.0	4.0 - 8.0' SAND: very fine, some silt, trace gravel, soft (HP=0.5), poorly sorted, dry, yellowish brown (10YR 5/8)	SM			86.7						
	39.6		6.0											
			7.0					81.3						
			8.0	8.0 - 12.0' SAND: very fine, little to some silt, little gravel, stiff (HP=1.5), poorly sorted, dry, trace odor, yellowish brown (10YR 5/8)	SM									

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID	Compressive Strength	Soil Properties: Moisture Content	Soil Properties: Liquid Limit	Soil Properties: Placticity Index	Soil Properties: P 200	RQD/ Comments
	43.2		9.0 10.0 11.0 12.0					132 106						
	44.4		13.0 14.0 15.0 16.0	12.0 - 16.0' SAND: very fine, little to some silt, little gravel, medium stiff (HP=0.75), poorly sorted, dry, trace odor, yellowish brown (10YR 5/8)	SM			259 146						
	36		17.0 18.0 19.0	16.0 - 19.0' SAND: very fine, little to some silt, little gravel, soft (HP=0.5), poorly sorted, dry, trace odor, yellowish brown (10YR 5/8)	SM			24.2						

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SOIL BORING LOG INFORMATION
Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☒ Other ☐

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Madison-Kipp Corporation		**B-175**

Boring Drilled By:	Date Drilling Started	Date Drilling Completed	Drilling Method
Name: **Charles Rens** Firm: **Giles Engineering**	**12/30/2013**	**12/30/2013**	**Direct Push**

WI Unique Well No.	DNR Well ID No.	Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet MSL	Feet MSL	**2** inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☒
State Plane **399713.93** N **2144066.88** E
of Section **5** , T **7** N, R **10 E**

Lat
Long

Local Grid Location
☐ N ☐ E
Feet ☐ S Feet ☐ W

Facility ID	County	County Code	Civil Town/City/or Village
113125320	**Dane**	**13**	**City of Madison**

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID (ppm)	Compressive Strength	Soil Properties: Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			0.0	0.0 - 0.6' CONCRETE	CONCRETE									
			1.0	0.6 - 1.1' CLAY: little silt, medium stiff to very stiff (HP=1-3.0), low plasticity, slightly moist, very dark grayish brown (10YR 3/2)	CL			14						
	48		2.0	1.1 - 4.0' CLAY: trace silt, trace very fine sand, crumbly, very stiff (HP=2-2.5), low plasticity, slightly moist, slight odor, yellowish brown (10YR 5/4)	CL									
			3.0					12.5						
			4.0	4.0 - 5.4' CLAY: trace silt, trace very fine sand, medium stiff (HP=1.0), low to medium plasticity, slightly moist, yellowish brown (10YR 5/4)	CL									
			5.0	5.4 - 6.0' CLAY SAND: very fine sand, clay content decreasing with depth, medium stiff (HP=1.0), poorly sorted, slightly moist to moist, dark yellowish brown (10YR 4/4)	CL-SP			45						
	38.4		6.0	6.0 - 8.0' SAND: very fine, trace clay, soft to medium stiff (HP=0.5-1.0), moderately sorted, slightly moist to moist, dark yellowish brown (10YR 4/6)	SP									
			7.0					24						
			8.0	8.0 - 12.0' SAND: very fine, trace coarse gravel, subround, trace rock fragments, trace silt, loose, poorly sorted, dry to slightly moist, trace odor, brownish yellow (10YR 6/6)	SW									
			9.0					115						

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID	Compressive Strength	Soil Properties: Moisture Content	Soil Properties: Liquid Limit	Soil Properties: Placticity Index	Soil Properties: P 200	RQD/ Comments
	39.6		10.0											
			11.0					141						
			12.0	12.0 - 21.0' SAND: very fine, little gravel, clayey from 12.2-15.3 feet, loose, poorly sorted, dry to slightly moist, trace odor, brownish yellow (10YR 6/6)	SW									
			13.0					3.7						
	45.6		14.0											
			15.0					332						
			16.0											
			17.0					49.2						
			18.0											
	56.4		19.0											
								149						
			20.0											
			21.0											

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State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION
Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☒ Other ☐

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Madison-Kipp Corporation		**B-176**

Boring Drilled By:	Date Drilling Started	Date Drilling Completed	Drilling Method
Name: **Charles Rens** Firm: **Giles Engineering**	**12/30/2013**	**12/30/2013**	**Direct Push**

WI Unique Well No.	DNR Well ID No.	Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet MSL	Feet MSL	**2** inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☒
State Plane **399727.25** N **2144067.99** E Lat
of Section **5** , T **7** N, R **10 E** Long

Local Grid Location
☐ N ☐ E
Feet ☐ S Feet ☐ W

Facility ID	County	County Code	Civil Town/City/or Village
113125320	**Dane**	**13**	**City of Madison**

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID (ppm)	Compressive Strength	Soil Properties: Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			0.0	0.0 - 0.7' CONCRETE	CONCRETE									
			1.0	0.7 - 4.0' CLAY: trace silt, trace fine gravel, soft to very stiff (HP=0.5-2.0), low plasticity, slight moist, dark yellowish brown (10YR 4/4)	CL			4.7						
	48		2.0											
			3.0					18.1						
			4.0	4.0 - 5.5' CLAY: trace silt, trace fine gravel, trace sand, soft to medium stiff (HP=0.5-2.0), low plasticity, slight moist, dark yellowish brown (10YR 4/4)	CL									
			5.0					7.8						
	48		6.0	5.5 - 7.5' CLAY SAND: very fine sand, clay content decreases with depth, little coarse gravel, stiff (HP=1.5), low to no plasticity, slightly moist, dark yellowish brown (10YR 4/6)	CL-SP									
			7.0					93.2						
			8.0	7.5 - 8.0' SAND: very fine, trace silt, loose, well sorted, dry, dark yellowish brown (10YR 3/6)	SP									
				8.0 - 15.9' SAND: very fine, little fine to medium gravel, trace silt, loose, poorly sorted, dry to slightly moist, trace odor, brownish yellow (10YR 6/6)	SW									
			9.0					87.5						

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID	Compressive Strength	Soil Properties: Moisture Content	Soil Properties: Liquid Limit	Soil Properties: Placticity Index	Soil Properties: P 200	RQD/ Comments
	42		10.0											
			11.0					114						
			12.0											
			13.0					848						
	46.8		14.0											
			15.0					175						
			16.0	15.9 - 21.0' SAND: very fine, little fine to medium gravel, trace silt, loose, poorly sorted, dry to slightly moist, brownish yellow (10YR 6/6)	SW									
			17.0					198						
			18.0											
	54		19.0											
			20.0					136						
			21.0											

I hereby certify that the information on this form is true and correct to the best of my knowledge.

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Milwaukee, WI (414) 276-7742

This form is authorized by Chapters 281, 283, 289, 291, 293, and 299, Wis. Stats. Completion of this form is mandatory. Failure to file this form may result in forfeiture of between $10 and $25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. NOTE: See instructions for more information, including where the completed form should be sent.

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION
Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☒ Other ☐

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Madison-Kipp Corporation		**B-177**

Boring Drilled By:	Date Drilling Started	Date Drilling Completed	Drilling Method
Name: **Charles Rens** Firm: **Giles Engineering**	**1/3/2014**	**1/3/2014**	**Direct Push**

WI Unique Well No.	DNR Well ID No.	Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet MSL	Feet MSL	**2** inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☒
State Plane **399747.20** N **2144068.03** E Lat
of Section **5** , T **7** N, R **10 E** Long

Local Grid Location
☐ N ☐ E
Feet ☐ S Feet ☐ W

Facility ID	County	County Code	Civil Town/City/or Village
113125320	**Dane**	**13**	**City of Madison**

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID (ppm)	Compressive Strength	Soil Properties: Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			0.0	0.0 - 0.5' CONCRETE	CONCRETE									
				0.5 - 1.0' CLAY: little silt, trace coarse sand, medium stiff (HP=1.0), low to moderate plasticity, slightly moist to moist, dark yellowish brown (10YR 3/4)	CL			6.7						
			1.0	1.0 - 2.0' CLAY: little to some silt, trace coarse sand, soft (HP=0.5), low plasticity, slightly moist to moist, dark yellowish brown (10YR 3/4)	CL-ML			20						
	48		2.0	2.0 - 4.0' CLAY: little to some silt, stiff (HP=1.5), low to no plasticity, dry to slightly moist, yellowish brown (10YR 5/6)	CL-ML			148						
			3.0											

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID	Compressive Strength	Soil Properties: Moisture Content	Soil Properties: Liquid Limit	Soil Properties: Placticity Index	Soil Properties: P 200	RQD/ Comments
								96						
			4.0	4.0 - 5.0' CLAY: little to some silt, stiff (HP=1.5), low to no plasticity, slightly moist, faint odor, dark yellowish brown (10YR 4/6)	CL-ML			102						
	42		5.0	5.0 - 6.0' CLAY SAND: very fine, trace silt, trace gravel, stiff (HP=1.75), poorly sorted, slight moist, dark yellowish brown (10YR 5/6)	CL-SP			263						
			6.0	6.0 - 7.0' SAND: very fine, trace clay, very loose, moderately sorted, slight moist, dark yellowish brown (10YR 4/6)	SP			36.1						
			7.0	7.0 - 7.5' SAND: very fine, trace clay, very loose, moderately sorted, slight moist, yellowish brown (10YR 5/6). Refusal at 7.5 feet	SP			543						

I hereby certify that the information on this form is true and correct to the best of my knowledge.

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State of Wisconsin
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SOIL BORING LOG INFORMATION
Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☒ Other ☐

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Madison-Kipp Corporation		**B-178**

Boring Drilled By:	Date Drilling Started	Date Drilling Completed	Drilling Method
Name: **Charles Rens** Firm: **Giles Engineering**	**1/2/2014**	**1/2/2014**	**Direct Push**

WI Unique Well No.	DNR Well ID No.	Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet MSL	Feet MSL	**2** inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☒
State Plane **399774.93** N **2144068.33** E Lat
of Section **5** , T **7** N, R **10 E** Long

Local Grid Location
☐ N ☐ E
Feet ☐ S Feet ☐ W

Facility ID	County	County Code	Civil Town/City/or Village
113125320	**Dane**	**13**	**City of Madison**

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID (ppm)	Compressive Strength	Soil Properties: Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			0.0	0.0 - 0.4' CONCRETE	CONCRETE									
				0.4 - 4.0' CLAY: some silt, very stiff to hard (HP=3.5-4.0), low plasticity, dry to slightly moist, yellowish brown (10YR 5/6)	CL									
			1.0					7.2						
48			2.0											
			3.0					358						
			4.0	4.0 - 5.2' CLAY: some silt, trace very fine sand, hard (HP=4.0), low plasticity, dry to slightly moist, yellowish brown (10YR 5/6)	CL									
			5.0					210						
				5.2 - 6.4' CLAY SAND: some silt, very stiff (HP=3.0), low plasticity, dry to slightly moist, yellowish brown	CL-SP									

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID	Compressive Strength	Soil Properties: Moisture Content	Soil Properties: Liquid Limit	Soil Properties: Placticity Index	Soil Properties: P 200	RQD/ Comments
	45.6		6.0	(10YR 5/6)										
			7.0	6.4 - 8.0' SAND: very fine, trace gravel, loose, moderately sorted, dry, odor, brownish yellow (10YR 6/6)	SW			651						
	40.8		8.0	8.0 - 12.0' SAND: very fine, little coarse gravel, fining downward, medim stiff (HP=1.0), poorly sorted, dry, yellowish brown (10YR 5/6). Refusal at 12 feet	SW			276						
			9.0											
			10.0											
			11.0					291						
			12.0											

I hereby certify that the information on this form is true and correct to the best of my knowledge.

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State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION
Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☒ Other ☐

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Madison-Kipp Corporation		**B-179**

Boring Drilled By:	Date Drilling Started	Date Drilling Completed	Drilling Method
Name: **Charles Rens** Firm: **Giles Engineering**	**1/3/2014**	**1/3/2014**	**Direct Push**

WI Unique Well No.	DNR Well ID No.	Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet MSL	Feet MSL	**2** inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☒

State Plane **399803.00** N **2144110.62** E Lat

of Section **5** , T **7** N, R **10 E** Long

Local Grid Location ☐ N ☐ E
Feet ☐ S Feet ☐ W

Facility ID	County	County Code	Civil Town/City/or Village
113125320	**Dane**	**13**	**City of Madison**

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID (ppm)	Compressive Strength	Soil Properties: Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			0.0	0.0 - 0.8' CONCRETE	CONCRETE									
	48		1.0	0.8 - 2.5' SAND: very fine to fine, little fine gravel, trace silt, very soft (HP=0.25), poorly sorted, stained gray to black from 1.6-2.5 feet, wet, strong odor, light yellowish brown (10YR 6/4)	SW			20.6						
			2.0											
			3.0	2.5 - 4.5' CLAY: little silt, very stiff (HP=3.5), no to low plasticity, stained, slightly moist, odor, dark grey (10YR 4/1)	CL			32.8						
			4.0											
	43.2		5.0	4.5 - 6.1' CLAY SAND: very fine sand, trace silt, sand content increasing with depth,medium stiff (HP=1.5), low to moderate plasticity, moist, odor, very dray gray (10YR 3/1)	CL-SP			34.1						
			6.0											
			7.0	6.1 - 18.2' SAND: very fine to fine, little to some silt, little coarse gravel, stiff (HP=1.5), poorly sorted, dry, odor, brownish yellow (10YR 6/6)	SM			31.4						
			8.0											
			9.0					27.9						
	36		10.0											
			11.0					36.5						

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID	Compressive Strength	Soil Properties: Moisture Content	Soil Properties: Liquid Limit	Soil Properties: Placticity Index	Soil Properties: P 200	RQD/ Comments
			12.0											
			13.0					32.5						
	26.4		14.0											
			15.0					21.1						
			16.0											
			17.0											
			18.0											
	26.4		19.0	18.2 - 23.1' SAND: very fine, little gravel, trace to little silt, stiff to very stiff (HP=2.0-4.0), moderately cohesive, slightly moist to moist, odor, dark yellowish brown (10YR 4/4)	SW			36.7						
			20.0											
			21.0											
			22.0											
	25.2		23.0					60.9						
			24.0	23.1 - 25.0' SAND: very fine to medium, little medium gravel, subround, trace silt, stiff (HP=2.0), poorly sorted, moist, odor, brownish yellow (10YR 6/6)	SW									
			25.0											

I hereby certify that the information on this form is true and correct to the best of my knowledge.

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Firm ARCADIS
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State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION
Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☒ Other ☐

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Madison-Kipp Corporation		**B-180**

Boring Drilled By:	Date Drilling Started	Date Drilling Completed	Drilling Method
Name: **Charles Rens** Firm: **Giles Engineering**	**1/2/2014**	**1/2/2014**	**Direct Push**

WI Unique Well No.	DNR Well ID No.	Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet MSL	Feet MSL	**2** inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☒
State Plane **399753.65** N **2144112.02** E Lat
of Section **5** , T **7** N, R **10 E** Long

Local Grid Location
☐ N ☐ E
Feet ☐ S Feet ☐ W

Facility ID	County	County Code	Civil Town/City/or Village
113125320	**Dane**	**13**	**City of Madison**

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID (ppm)	Compressive Strength	Soil Properties: Moisture Content	Liquid Limit	Placticity Index	P 200	RQD/ Comments
			0.0	0.0 - 0.7' CONCRETE	CONCRETE									
	24		1.0	0.7 - 4.2' CLAY: little to some silt, stiff (HP=1.5-2.0), moderate to high plasticity, stained, slightly moist, strong odor, dark gray (10YR 4/1)	CL			81.5						
			2.0											
			3.0					78						
	48		4.0											
				4.2 - 5.2' CLAY SAND: very fine, trace silt, stiff (HP=1.5), no to low plasticity, stained, moist, odor, very dark gray (10YR 3/1)	CL-SP									
			5.0					157						
				5.2 - 6.0' SAND: very fine, little clay, loose, moderately sorted, moist, odor, yellowish brown (10YR 5/4)	SC									
			6.0											
				6.0 - 18.0' SAND: very fine, trace clay, little gravel, subround, pulverized rock from 8-8.2 feet, loose to stiff (HP=1.5), slightly moist, odor, yellowish brown (10YR 5/4)	SC									
			7.0											
	30		8.0					142						

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID	Compressive Strength	Soil Properties: Moisture Content	Soil Properties: Liquid Limit	Soil Properties: Placticity Index	Soil Properties: P 200	RQD/ Comments
			9.0											
			10.0											
	34.8		11.0					134						
			12.0											
			13.0											
			14.0											
	31.2		15.0					177						
			16.0											
			17.0											
			18.0											

I hereby certify that the information on this form is true and correct to the best of my knowledge.

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SOIL BORING LOG INFORMATION
Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☒ Other ☐

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Madison-Kipp Corporation		**B-181**

Boring Drilled By:	Date Drilling Started	Date Drilling Completed	Drilling Method
Name: **Charles Rens** Firm: **Giles Engineering**	**1/2/2014**	**1/2/2014**	**Direct Push**

WI Unique Well No.	DNR Well ID No.	Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet MSL	Feet MSL	**2** inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☒
State Plane **399717.95** N **2144112.16** E
of Section **5** , T **7** N, R **10 E**

Lat
Long

Local Grid Location
☐ N ☐ E
Feet ☐ S Feet ☐ W

Facility ID	County	County Code	Civil Town/City/or Village
113125320	**Dane**	**13**	**City of Madison**

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID (ppm)	Compressive Strength	Soil Properties: Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			0.0	0.0 - 0.5' CONCRETE	CONCRETE									
				0.5 - 5.0' CLAY: little to some silt, decreasing with depth, stiff to very stiff (HP=2.5-3.0), low to moderate plasticity, slightly moist, odor, dark yellowish brown (10YR 4/4)	CL			55.9						
	42		1.0											
			2.0					81.3						
			3.0											
			4.0					59.9						
			5.0	5.0 - 7.3' CLAY SAND: very fine, clay content decreasing with depth, trace fine gravel, medium stiff (HP=1.0), low plasticity, slightly moist, odor, dark yellowish brown (10YR 4/4)	CL-SP									
	45.6		6.0											
			7.0					64.2						
				7.3 - 8.0' SAND: very fine, trace silt, trace fine gravel, medium stiff (HP=1.0), moderately sorted, slight moist, yellowish brown (10YR 5/6)	SW									
			8.0	8.0 - 12.0' SAND: very fine, trace silt, trace fine gravel, medium stiff (HP=1.0), moderately sorted, slight moist, odor, yellowish brown (10YR 5/6)	SW									
			9.0											

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID	Compressive Strength	Soil Properties: Moisture Content	Soil Properties: Liquid Limit	Soil Properties: Placticity Index	Soil Properties: P 200	RQD/ Comments
	28.8		10.0					61.3						
			11.0											
			12.0	12.0 - 21.0' SAND: very fine to fine, little silt, little coarse gravel, stiff (HP=1.5), poorly sorted, moist, odor, brownish yellow (10YR 6/6)	SW			29.4						
	44.4		13.0											
			14.0					33.1						
			15.0											
			16.0					31.5						
			17.0											
	49.2		18.0					36.1						
			19.0											
			20.0											
			21.0											

I hereby certify that the information on this form is true and correct to the best of my knowledge.

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SOIL BORING LOG INFORMATION
Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☒ Other ☐

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Madison-Kipp Corporation		**B-182**

Boring Drilled By:	Date Drilling Started	Date Drilling Completed	Drilling Method
Name: **Charles Rens** Firm: **Giles Engineering**	**1/2/2014**	**1/2/2014**	**Direct Push**

WI Unique Well No.	DNR Well ID No.	Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet MSL	Feet MSL	**2** inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☒
State Plane **399692.52** N **2144095.36** E
of Section **5** , T **7** N, R **10 E**

Lat
Long

Local Grid Location
☐ N ☐ E
Feet ☐ S Feet ☐ W

Facility ID	County	County Code	Civil Town/City/or Village
113125320	**Dane**	**13**	**City of Madison**

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID (ppm)	Compressive Strength	Soil Properties: Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			0.0	0.0 - 0.6' CONCRETE	CONCRETE									
				0.6 - 1.1' CLAY: little silt, trace very fine sand, stiff (HP=1.5), low to moderate plasticity, slightly moist, odor, dark yellowish brown (10YR 4/4)	CL			41.3						
			1.0	1.1 - 1.6' SAND GRAVEL	SW-GW									
	38.4		2.0	1.6 - 4.0' CLAY: little silt, trace very fine sand, stiff (HP=1.5), low to moderate plasticity, stained, slightly moist, odor, dark yellowish brown (10YR 4/4)	CL			58.9						
			3.0											
			4.0	4.0 - 5.9' SAND: very fine, little medium gravel, soft (HP=0.5), poorly sorted, dry, odor, brown (10YR 5/3)	SW			84.3						
	37.2		5.0											
			6.0	5.9 - 8.0' SAND: very fine, little to some clay, trace fine gravel, soft (HP=0.5), poorly sorted, slightly moist, very dark gray (10YR 3/1)	SC			92.7						
			7.0											

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID	Compressive Strength	Soil Properties: Moisture Content	Soil Properties: Liquid Limit	Soil Properties: Placticity Index	Soil Properties: P 200	RQD/ Comments
			8.0											
	40.8		8.0 9.0 10.0 11.0 12.0	8.0 - 12.0' SAND: very fine, little to some clay, trace fine gravel,soft (HP=0.5), poorly sorted, slightly moist, odor, very dark gray (10YR 3/1)	SC			65.1						
	42		12.0 13.0 14.0 15.0	12.0 - 15.5' SAND: very fine, little to some clay, trace fine gravel, soft (HP=0.5), poorly sorted, slightly moist, slight odor, very dark gray (10YR 3/1)	SC			87.4 104						

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SOIL BORING LOG INFORMATION
Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☒ Other ☐

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Madison-Kipp Corporation		**B-183**

Boring Drilled By:	Date Drilling Started	Date Drilling Completed	Drilling Method
Name: **Charles Rens** Firm: **Giles Engineering**	**1/3/2014**	**1/3/2014**	**Direct Push**

WI Unique Well No.	DNR Well ID No.	Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet MSL	Feet MSL	**2** inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☒
State Plane **399777.55** N **2144138.44** E Lat
of Section **5** , T **7** N, R **10 E** Long

Local Grid Location
☐ N ☐ E
Feet ☐ S Feet ☐ W

Facility ID	County	County Code	Civil Town/City/or Village
113125320	**Dane**	**13**	**City of Madison**

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID (ppm)	Compressive Strength	Soil Properties: Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			0.0	0.0 - 0.7' CONCRETE	CONCRETE									
			1.0	0.7 - 1.6' CLAY: little to some silt, medium stiff (HP=1.0), low plasticity, crumbly, slightly moist, dark yellowish brown (10YR 4/4)	CL			38.5						
	44.4		2.0	1.6 - 4.0' CLAY: little to some silt, hard (HP=4.5), low plasticity, crumbly, slightly moist, dark yellowish brown (10YR 4/4)	CL									
			3.0					29.2						
			4.0	4.0 - 4.9' CLAY: little to some silt, very stiff (HP=2.5), low plasticity, crumbly, slightly moist, dark yellowish brown (10YR 4/4)	CL									
			5.0	4.9 - 7.6' CLAY: sandy, transitioning to clayey sand, medium stiff (HP=1.0) to loose, low plasticity, slightly moist to moist, dark yellowish brown (10YR 4/6)	CL			63.1						
	48		6.0											
			7.0					79.2						
				7.6 - 8.0' SAND: very fine, little to some silt, little medium gravel, soft (HP=0.5), poorly sorted, dry, moderate odor, brownish yellow (10YR 6/6)	SM									
			8.0	8.0 - 11.4' SAND: very fine, little silt, little medium gravel, soft (HP=0.5), poorly sorted, dry, moderate odor, brownish yellow (10YR 6/6)	SM									
			9.0					108						

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID	Compressive Strength	Soil Properties: Moisture Content	Soil Properties: Liquid Limit	Soil Properties: Placticity Index	Soil Properties: P 200	RQD/ Comments
	43.2		10.0											
			11.0					30.3						
				11.4 - 12.0' GRAVEL: coarse	GW									
			12.0	12.0 - 21.0' SAND: very fine, little silt, little medium gravel, soft (HP=0.5), poorly sorted, dry, odor, brownish yellow (10YR 6/6)	SM									
			13.0					24.9						
	39.6		14.0											
			15.0					30.6						
			16.0											
			17.0					31.2						
			18.0											
	39.6		19.0											
								34.1						
			20.0											
			21.0											

I hereby certify that the information on this form is true and correct to the best of my knowledge.

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State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION
Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☒ Other ☐

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Madison-Kipp Corporation		**B-184**

Boring Drilled By:	Date Drilling Started	Date Drilling Completed	Drilling Method
Name: **Charles Rens** Firm: **Giles Engineering**	**1/3/2014**	**1/3/2014**	**Direct Push**

WI Unique Well No.	DNR Well ID No.	Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet MSL	Feet MSL	**2** inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☒
State Plane **399723.73** N **2144144.93** E
of Section **5** , T **7** N, R **10 E**

Lat
Long

Local Grid Location
☐ N ☐ E
Feet ☐ S Feet ☐ W

Facility ID	County	County Code	Civil Town/City/or Village
113125320	**Dane**	**13**	**City of Madison**

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID (ppm)	Compressive Strength	Soil Properties: Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			0.0	0.0 - 0.6' CONCRETE	CONCRETE									
			1.0	0.6 - 1.3' CLAY: some silt, silt content decreasing slightly with depth, stiff to very stiff (HP=2.5-3.5), crumbly, no plasticity, dry, yellowish brown (10YR 5/6)	CL			18.9						
	48		2.0	1.3 - 4.0' SAND: very fine, some silt, trace gravel, stiff (HP=1.5), poorly sorted, slightly moist, yellowish brown (10YR 5/6)	SM			21.6						
	39.6		4.0	4.0 - 8.0' SAND: very fine, little clay form 4 to 4.8 feet, little coarse gravel, soft (HP=0.5), poorly sorted, dry, brownish yellow (10YR 6/6)	SC			143						
			8.0	8.0 - 16.0' SAND: very fine, little clay form 4 to 4.8 feet, little coarse gravel, slightly cohesive, stiff (HP=2.0), poorly sorted, dry, brownish yellow (10YR 6/6)	SC			4.5						
			9.0					23						

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID	Compressive Strength	Soil Properties: Moisture Content	Soil Properties: Liquid Limit	Soil Properties: Placticity Index	Soil Properties: P 200	RQD/ Comments
	44.4		10.0											
			11.0					30						
			12.0											
	48		13.0											
			14.0					33.9						
			15.0											
			16.0	16.0 - 17.2' SAND: very fine, some silt, trace gravel, stiff (HP=1.5), poorly sorted, slightly moist, yellowish brown (10YR 5/6)	SM									
			17.0					40.3						
				17.2 - 17.9' GRAVEL: coarse	GW									
				17.9 - 18.0' GRAVEL: coarse	GW									
			18.0		SM									
	54			18.0 - 21.0' SAND: very fine, some silt, trace gravel, stiff (HP=1.5), poorly sorted, slightly moist, yellowish brown (10YR 5/6)										
			19.0					65.3						
			20.0											
			21.0											

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State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION
Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☒ Other ☐

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Madison-Kipp Corporation		**B-185**

Boring Drilled By:	Date Drilling Started	Date Drilling Completed	Drilling Method
Name: **Charles Rens** Firm: **Giles Engineering**	**1/3/2014**	**1/3/2014**	**Direct Push**

WI Unique Well No.	DNR Well ID No.	Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet MSL	Feet MSL	**2** inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☒
State Plane **399706.25** N **2144142.26** E Lat
of Section **5** , T **7** N, R **10 E** Long

Local Grid Location
☐ N ☐ E
Feet ☐ S Feet ☐ W

Facility ID	County	County Code	Civil Town/City/or Village
113125320	**Dane**	**13**	**City of Madison**

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID (ppm)	Compressive Strength	Soil Properties: Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			0.0	0.0 - 0.4' CONCRETE	CONCRETE									
				0.4 - 2.5' CLAY: little silt, very stiff (HP=3.0), low plasticity, dry to slightly moist, dark yellowish brown (10YR 4/6)	CL									
			1.0					0						
	42		2.0											
				2.5 - 4.0' CLAY: little silt, trace to little very fine sand, very stiff (HP=3.0), low plasticity, dry to slightly moist, dark yellowish brown (10YR 4/6)	CL									
			3.0					0						

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID	Compressive Strength	Soil Properties: Moisture Content	Soil Properties: Liquid Limit	Soil Properties: Placticity Index	Soil Properties: P 200	RQD/ Comments
			4.0	4.0 - 4.7' CLAY: little silt, little to some very fine sand, very stiff (HP=3.0), low plasticity, dry to slightly moist, dark yellowish brown (10YR 4/6)	CL									
	30		5.0	4.7 - 7.0' SAND: very fine, little to some coarse gravel, subangular, trace clay, loose, poorly sorted, dry, yellowish brown (10YR 5/8)	SW			10.5						
			6.0											
			7.0											

I hereby certify that the information on this form is true and correct to the best of my knowledge.

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SOIL BORING LOG INFORMATION
Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☒ Other ☐

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Madison-Kipp Corporation		**B-186**

Boring Drilled By:	Date Drilling Started	Date Drilling Completed	Drilling Method
Name: **Charles Rens** Firm: **Giles Engineering**	**1/3/2014**	**1/3/2014**	**Hand Auger**

WI Unique Well No.	DNR Well ID No.	Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet MSL	Feet MSL	**4** inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☒
State Plane **399650.43** N **2144026.25** E Lat
of Section **5** , T **7** N, R **10 E** Long

Local Grid Location
☐ N ☐ E
Feet ☐ S Feet ☐ W

Facility ID	County	County Code	Civil Town/City/or Village
113125320	**Dane**	**13**	**City of Madison**

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID (ppm)	Compressive Strength	Soil Properties: Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
	36		0.0	0.0 - 0.5' CONCRETE	CONCRETE			0						
				0.5 - 1.0' SAND: very fine, little silt, trace medium gravel, subround, loose, poorly sorted, dry, yellow (10YR 7/6)	SM									
			1.0	1.0 - 2.0' CLAY: little to some very fine sand, very stiff (HP=2.5), no to low plasticity, dry to slightly moist, dark yellowish brown (10YR 3/6)	CL			0						
			2.0	2.0 - 3.5' CLAY: trace fine sand, very stiff (HP=2.0), low plasticity, dry to slightly moist, dark yellowish brown (10YR 3/6)	CL			0						
			3.0											

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Milwaukee, WI (414) 276-7742

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION
Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☒ Other ☐

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Madison-Kipp Corporation		**B-187**

Boring Drilled By:	Date Drilling Started	Date Drilling Completed	Drilling Method
Name: **Charles Rens** Firm: **Giles Engineering**	**1/3/2014**	**1/3/2014**	**Direct Push**

WI Unique Well No.	DNR Well ID No.	Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet MSL	Feet MSL	**2** inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☒
State Plane **399630.84** N **2144065.05** E Lat
of Section **5** , T **7** N, R **10 E** Long

Local Grid Location
☐ N ☐ E
Feet ☐ S Feet ☐ W

Facility ID	County	County Code	Civil Town/City/or Village
113125320	**Dane**	**13**	**City of Madison**

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID (ppm)	Compressive Strength	Soil Properties: Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			0.0	0.0 - 0.4' CONCRETE	CONCRETE									
			1.0	0.4 - 1.3' CLAY: little silt, very stiff (HP=2.0), no plasticity, dry, yellowish brown (10YR 5/6)	CL			18						
	39.6		2.0	1.3 - 4.0' CLAY SAND: very fine sand, trace to little silt, trace coarse gravel, subrounded, stiff (HP=2.5), dry to slightly moist, slight odor, dark yellowish brown (10YR 4/6)	CL-SP			22.9						
			4.0	4.0 - 6.9' SAND: very fine, some silt, trace gravel, loose, poorly sorted, dry, trace odor, yellowish brown (10YR 5/8)	SM			27.1						
	37.2		6.0											

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID	Compressive Strength	Soil Properties: Moisture Content	Soil Properties: Liquid Limit	Soil Properties: Placticity Index	Soil Properties: P 200	RQD/ Comments
			7.0	6.9 - 8.0' CONCRETE	CONCRETE			35.3						
	44.4		8.0	8.0 - 10.3' SAND: very fine, some silt, trace gravel, loose, poorly sorted, dry, trace odor, yellowish brown (10YR 5/8)	SM			53.3						
			10.0	10.3 - 11.0' GRAVEL: coarse	GW									
			11.0	11.0 - 14.0' SAND: very fine, some silt, trace gravel, loose, poorly sorted, dry, trace odor, yellowish brown (10YR 5/8). Refusal at 14 feet	SM			33.9						
	24		12.0					43.7						
			13.0											
			14.0											

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature

Firm ARCADIS
126 N. Jefferson St., Suite 400
Milwaukee, WI (414) 276-7742

This form is authorized by Chapters 281, 283, 289, 291, 293, and 299, Wis. Stats. Completion of this form is mandatory. Failure to file this form may result in forfeiture of between $10 and $25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. NOTE: See instructions for more information, including where the completed form should be sent.

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION
Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☒ Other ☐

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Madison-Kipp Corporation		**B-188**

Boring Drilled By:	Date Drilling Started	Date Drilling Completed	Drilling Method
Name: **Charles Rens** Firm: **Giles Engineering**	**1/2/2014**	**1/2/2014**	**Direct Push**

WI Unique Well No.	DNR Well ID No.	Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet MSL	Feet MSL	**2** inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☒
State Plane **399644.87** N **2144075.51** E
of Section **5** , T **7** N, R **10 E**
Lat
Long

Local Grid Location
☐ N ☐ E
Feet ☐ S Feet ☐ W

Facility ID	County	County Code	Civil Town/City/or Village
113125320	**Dane**	**13**	**City of Madison**

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID (ppm)	Compressive Strength	Soil Properties: Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			0.0	0.0 - 0.5' CONCRETE	CONCRETE									
			1.0	0.5 - 1.6' CLAY: little silt, hard (HP=4.5), no to low plasticity, dry to slightly moist, dark yellowish brown (10YR 4/4)	CL			374						
	44.4		2.0	1.6 - 2.7' SAND: very fine, some clay, trace gravel, medium stiff (HP=2.0), no plasticity, slightly moist to moist, dark yellowish brown (10YR 4/6)	SC									
			3.0	2.7 - 4.0' SAND: very fine, trace silt, trace gravel, loose, poorly sorted, dry, yellowish brown (10YR 5/6)	SW			422						
			4.0											
	33.6		5.0	4.0 - 8.0' SAND: very fine, trace silt, little gravel, loose, poorly sorted, dry, yellowish brown (10YR 5/6)	SW			422						
			6.0											
			7.0					311						

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID	Compressive Strength	Soil Properties: Moisture Content	Soil Properties: Liquid Limit	Soil Properties: Placticity Index	Soil Properties: P 200	RQD/ Comments
			8.0											
	38.4		9.0	8.0 - 16.0' SAND: some silt, little gravel, fines increase with depth, medium dense (HP=2.0), dry to slightly moist. Refusal at 16 feet	SM			188						
			10.0											
			11.0					372						
	39.6		12.0											
			13.0					195						
			14.0											
			15.0					204						
			16.0											

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature

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Department of Natural Resources

SOIL BORING LOG INFORMATION
Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☒ Other ☐

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Madison-Kipp Corporation		**B-189**

Boring Drilled By:	Date Drilling Started	Date Drilling Completed	Drilling Method
Name: **Charles Rens** Firm: **Giles Engineering**	**1/15/2014**	**1/15/2014**	**Direct Push**

WI Unique Well No.	DNR Well ID No.	Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet MSL	Feet MSL	**2** inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☒
State Plane **400028.06** N **2144133.07** E
of Section **5** , T **7** N, R **10 E**
Lat
Long

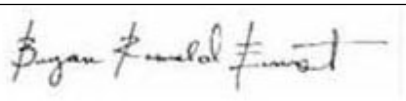
Local Grid Location
☐ N ☐ E
Feet ☐ S Feet ☐ W

Facility ID	County	County Code	Civil Town/City/or Village
113125320	**Dane**	**13**	**City of Madison**

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID (ppm)	Compressive Strength	Soil Properties: Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
	55.2		0.0	0.0 - 0.4' CONCRETE	CONCRETE									
			1.0	0.4 - 2.9' FILL: some silt, brick fragments, vesicular black slag, orange streaks, black staining, strong odor, black (10YR 2/1)	FILL			15.3						
			2.0											
			3.0	2.9 - 5.0' CLAY: trace silt, high plasticity, moist, hard (HP=3.5), gray mottling, black and green streaks throughout, iron staining, yellowish brown (10YR 5/4)	CH			14.9						
			4.0											
	42		5.0	5.0 - 5.9' CLAY: trace silt, high plasticity, moist, very stiff (HP=3.5), gray mottling, black and green streaks throughout, iron staining, yellowish brown (10YR 5/4)	CH			15.6						
			6.0	5.9 - 10.0' SAND: very fine to fine grained, trace silt, little 1/4-1" gravel, subangular to subrounded, poorly sorted, orange streaks throughout, moist, brownish yellow (10YR 6/6)	SW									
			7.0					13.3						
			8.0											
			9.0					12.8						

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID	Compressive Strength	Soil Properties: Moisture Content	Soil Properties: Liquid Limit	Soil Properties: Placticity Index	Soil Properties: P 200	RQD/ Comments
			10.0											
	43.2		11.0	10.0 - 15.0' SAND: very fine to fine grained, trace silt, little 1/4-1" gravel, subangular to subrounded, poorly sorted, orange streaks throughout, moist, brownish yellow (10YR 6/6)	SW			7.8						
			12.0											
			13.0					12.7						
			14.0											
			15.0					15.1						
	43.2		16.0	15.0 - 21.0' SAND: very fine to fine grained, trace silt, little 1/4-1" gravel, subangular to subrounded, poorly sorted, orange streaks throughout, wet at 18.2', brownish yellow (10YR 6/6)	SW			16.5						
			17.0											
			18.0											
			19.0					12.2						
			20.0											
			21.0											

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature 

Firm ARCADIS
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State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION
Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☒ Other ☐

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Madison-Kipp Corporation		**B-190**

Boring Drilled By:	Date Drilling Started	Date Drilling Completed	Drilling Method
Name: **Charles Rens** Firm: **Giles Engineering**	**1/15/2014**	**1/15/2014**	**Direct Push**

WI Unique Well No.	DNR Well ID No.	Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet MSL	Feet MSL	**2** inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☒
State Plane **400042.02** N **2144120.14** E Lat
of Section **5** , T **7** N, R **10 E** Long

Local Grid Location
☐ N ☐ E
Feet ☐ S Feet ☐ W

Facility ID	County	County Code	Civil Town/City/or Village
113125320	**Dane**	**13**	**City of Madison**

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID (ppm)	Compressive Strength	Soil Properties: Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
	60		0.0	0.0 - 0.4' CONCRETE	CONCRETE									
			1.0	0.4 - 1.8' FILL: some silt, brick fragments, vesicular black slag, orange streaks, black staining, strong odor, black (10YR 2/1)	FILL			597.0						
			2.0	1.8 - 2.0' SILT: little clay, trave very fine sand, trace 1/8-1/4" vesicular black slag, dry and crumbly, no plasticity, hard (HP=>5.0), pockets of orange staining, strong odor, very dark brown (10YR 2/2)	ML									
					CL									
			3.0	2.0 - 5.0' CLAY: some silt, trace to some very fine sand, no to little plasticity, plasticity increases with depth, hard (HP=4.5), gray mottling, moist, orange and black streaks, dark yellowish brown (10YR 4/6)				109.0						
			4.0											
			5.0	5.0 - 5.2' CLAY: some silt, trace to some very fine sand, no to little plasticity, plasticity increases with depth, hard (HP=4.5), gray mottling, moist, orange and black streaks, dark yellowish brown (10YR 4/6)	CL			36.8						
	34.8		6.0	5.2 - 10.0' SAND: very fine to fine grained, trace silt, little 1/4-3/4" gravel, subangular to subrounded, poorly sorted, orange streaks, moist, brownish yellow (10YR 6/6)	SW									
			7.0					11.7						
			8.0											
			9.0											

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID	Compressive Strength	Soil Properties: Moisture Content	Soil Properties: Liquid Limit	Soil Properties: Placticity Index	Soil Properties: P 200	RQD/ Comments
			10.0											
				10.0 - 12.1' SAND: very fine to fine grained, trace silt, little 1/4-3/4" gravel, subangular to subrounded, poorly sorted, orange streaks, moist, brownish yellow (10YR 6/6)	SW			259.2						
			11.0											
			12.0	12.1 - 12.4' GRAVEL: coarse	DOLOMITE									
	44.4			12.4 - 15.0' SAND: very fine to fine grained, trace silt, little 1/4-3/4" gravel, subangular to subrounded, poorly sorted, orange streaks, moist, brownish yellow (10YR 6/6)	SW			188.4						
			13.0											
			14.0											
			15.0					426						
				15.0 - 21.0' SAND: very fine to fine grained, trace silt, little 1/4-3/4" gravel, subangular to subrounded, poorly sorted, orange streaks, wet at 17.4', brownish yellow (10YR 6/6)	SW									
			16.0											
			17.0					268.8						
	42		18.0											
			19.0											
			20.0											
			21.0											

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Signature

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Department of Natural Resources

SOIL BORING LOG INFORMATION
Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☒ Other ☐

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Madison-Kipp Corporation		**B-191**

Boring Drilled By:	Date Drilling Started	Date Drilling Completed	Drilling Method
Name: **Charles Rens** Firm: **Giles Engineering**	**1/4/2014**	**1/4/2014**	**Direct Push**

WI Unique Well No.	DNR Well ID No.	Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet MSL	**874.68** Feet MSL	**2** inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☒
State Plane **399694.80** N **2144106.35** E Lat
of Section **5** , T **7** N, R **10 E** Long

Local Grid Location
☐ N ☐ E
Feet ☐ S Feet ☐ W

Facility ID	County	County Code	Civil Town/City/or Village
113125320	**Dane**	**13**	**City of Madison**

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID (ppm)	Compressive Strength	Soil Properties: Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			0.0	0.0 - 0.6' CONCRETE	CONCRETE			56.9						
			1.0	0.6 - 1.0' CLAY: little to some silt, trace fine gravel, soft (HP=1.0), moderate plasticity, slightly moist, slight odor, brown (10YR 4/3)	CL									
	48		2.0	1.0 - 2.9' CLAY: some silt, medium stiff (HP=2.0), low plasticity, slightly moist, odor, dark yellowish brown (10YR 4/6)	CL			62.5						
			3.0	2.9 - 3.5' CLAY: some very fine sand, sand content increasing with depth, little silt, soft to medium stiff (HP=1.5), low plasticity, greenish staining, slightly moist, odor, dark grayish brown (10YR 4/2)	CL			42.2						
			4.0	3.5 - 4.0' SAND: very fine, little silt, loose (HP=1.0), moderately sorted, slightly moist, odor, yellowish brown (10YR 5/4)	SM SM									
	38.4		5.0	4.0 - 10.2' SAND: very fine, little silt, little fine gravel, loose (HP=0.5), poorly sorted, dry, trace odor, light yellowish brown (10YR 6/4)				29.4						
			6.0											
			7.0					53.4						
			8.0											
			9.0					50.8						

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID	Compressive Strength	Soil Properties: Moisture Content	Soil Properties: Liquid Limit	Soil Properties: Placticity Index	Soil Properties: P 200	RQD/ Comments
	34.8		10.0	10.2 - 10.6' GRAVEL: coarse	GW									
			11.0	10.6 - 21.0' SAND: very fine, little silt, little fine gravel, soft (HP=0.5), poorly sorted, dry, trace odor, light yellowish brown (10YR 6/4)	SM			54.3						
			12.0											
			13.0					69.2						
	44.4		14.0											
			15.0					92.9						
			16.0											
			17.0					45.8						
			18.0											
	39.6		19.0											
			20.0					16.4						
			21.0											

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature Bryan Arnold Ernst

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126 N. Jefferson St., Suite 400
Milwaukee, WI (414) 276-7742

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION
Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☒ Other ☐

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Madison-Kipp Corporation		**B-192**

Boring Drilled By:	Date Drilling Started	Date Drilling Completed	Drilling Method
Name: **Charles Rens** Firm: **Giles Engineering**	**1/15/2014**	**1/15/2014**	**Direct Push**

WI Unique Well No.	DNR Well ID No.	Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet MSL	Feet MSL	**2** inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☒
State Plane **400059.53** N **2144127.80** E Lat
of Section **5** , T **7** N, R **10 E** Long

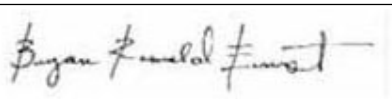
Local Grid Location
☐ N ☐ E
Feet ☐ S Feet ☐ W

Facility ID	County	County Code	Civil Town/City/or Village
113125320	**Dane**	**13**	**City of Madison**

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID (ppm)	Compressive Strength	Soil Properties: Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
	48		0.0 1.0 2.0 3.0	0.0 - 1.2' CONCRETE 1.2 - 1.5' FILL: black vesicular slag, brick fragments, orange streaks, black (10YR 2/1) 1.5 - 3.0' CLAY: little to some silt, low plasticity, moist, hard (HP=>5.0), grey mottling throughout, orange and black streaks, dark yellowish brown (10YR 4/6) 3.0 - 5.0' SAND: fine grained, some silt, little clay, poorly sorted, moist, orange and black streaks, brownish yellow (10YR 6/6)	CONCRETE FILL CL SW			1365.0 35.1							
	36		4.0 5.0 6.0 7.0 8.0 9.0	5.0 - 5.6' SAND: fine grained, some silt, little clay, poorly sorted, moist, orange and black streaks, brownish yellow (10YR 6/6) 5.6 - 10.0' SAND: very fine to fine grained, trace silt, trace to little 1/4-1.5" gravel, subangular to subrounded, poorly sorted, orange streaks throughout, moist, brownish yellow (10YR 6/6)	SW SW			8.3 5.1						

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID	Compressive Strength	Soil Properties: Moisture Content	Soil Properties: Liquid Limit	Soil Properties: Placticity Index	Soil Properties: P 200	RQD/ Comments
			10.0											
	36		11.0	10.0 - 15.0' SAND: very fine to fine grained, trace silt, trace to little 1/4-1.5" gravel, subangular to subrounded, poorly sorted, orange streaks throughout, moist, brownish yellow (10YR 6/6)	SW			3.4						
			12.0											
			13.0					2.7						
			14.0											
			15.0					3.5						
	37.2		16.0	15.0 - 21.0' SAND: very fine to fine grained, trace silt, trace to little 1/4-1.5" gravel, subangular to subrounded, poorly sorted, orange streaks throughout, wet at 17.8', brownish yellow (10YR 6/6)	SW									
			17.0					10.6						
			18.0											
			19.0											
			20.0											
			21.0											

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature 

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Department of Natural Resources

SOIL BORING LOG INFORMATION
Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☒ Other ☐

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Madison-Kipp Corporation		**B-193**

Boring Drilled By:	Date Drilling Started	Date Drilling Completed	Drilling Method
Name: **Charles Rens** Firm: **Giles Engineering**	**2/27/2014**	**2/27/2014**	**Direct Push**

WI Unique Well No.	DNR Well ID No.	Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet MSL	Feet MSL	**2** inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☒
State Plane **399952.195782** N **2144106.47756** E Lat
of Section **5** , T **7** N, R **10 E** Long

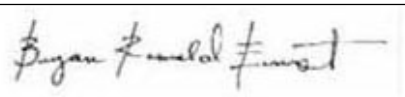
Local Grid Location ☐ N ☐ E
Feet ☐ S Feet ☐ W

Facility ID	County	County Code	Civil Town/City/or Village
113125320	**Dane**	**13**	**City of Madison**

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID (ppm)	Compressive Strength	Soil Properties: Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			0.0	0.0 - 0.4' CONCRETE	CONCRETE									
			1.0	0.4 - 0.9' SILT: some very fine to fine sand, little to some clay, little 3/4-1" angular gravel, dry, non-plastic, very soft, brown (10 YR 4/3)	ML			0.8						
	36		2.0	0.9 - 4.0' CLAY: little silt, trace very fine sand, medium plasticity, moist, medium stiff, dark brown mottling throughout, dark yellowish brown (10 YR 3/4)	CH			0.7						
			4.0	4.0 - 4.5' CLAY: little silt, trace very fine sand, medium plasticity, moist, medium stiff, dark brown mottling throughout, dark yellowish brown (10 YR 3/4)	CH									
	39.6		5.0	4.5 - 6.3' CLAY: trace silt, trace very fine sand, high plasticity, moist, very stiff, gray and dark brown mottling throughout, trace pockets of iron oxidation, trace black streaks throughout, dark yellowish brown (10 YR 3/4)	CH			0.7						
			6.0	6.3 - 8.0' CLAY: little silt, some very fine to fine sand, little 1/4-1/2" angular gravel, very stiff, medium plasticity, moist, gray mottling, iron oxidation and black streaks throughout, % of sand increases with depth, dark yellowish brown (10 YR 3/4)	CH			0.6						
			8.0	8.0 - 8.9' CLAY: little silt, some very fine to fine sand, little 1/4-1/2" angular gravel, very stiff, medium plasticity, moist, gray mottling, iron oxidation and black streaks throughout, % of sand increases with depth, dark yellowish brown (10 YR 3/4)	CH									
			9.0	8.9 - 12.0' SAND: very fine grained, little silt, trace 1/4-1/2" angular gravel, poorly sorted, moist, yellowish brown (10 YR 5/4)	SW			0.5						

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID	Compressive Strength	Soil Properties: Moisture Content	Soil Properties: Liquid Limit	Soil Properties: Placticity Index	Soil Properties: P 200	RQD/ Comments
	34.8		10.0											
			11.0					0.4						
			12.0											
	48		13.0	12.0 - 16.0' SAND: very fine grained, little silt, trace 1/4-1/2" angular gravel, poorly sorted, moist, yellowish brown (10 YR 5/4)	SW			0.8						
			14.0											
			15.0					0.3						
			16.0											
	60		17.0	16.0 - 21.0' SAND: very fine grained, little silt, trace 1/4-1/2" angular gravel, poorly sorted, moist, yellowish brown (10 YR 5/4)	SW			0.4						
			18.0											
			19.0					0.2						
			20.0											
			21.0					0.2						

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature 

Firm ARCADIS
126 N. Jefferson St., Suite 400
Milwaukee, WI (414) 276-7742

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION
Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☒ Other ☐

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Madison-Kipp Corporation		**B-194**

Boring Drilled By:	Date Drilling Started	Date Drilling Completed	Drilling Method
Name: **Charles Rens** Firm: **Giles Engineering**	**2/27/2014**	**2/27/2014**	**Direct Push**

WI Unique Well No.	DNR Well ID No.	Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet MSL	Feet MSL	**2** inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☒
State Plane **399952.855885** N **2144126.27477** E Lat
of Section **5** , T **7** N, R **10 E** Long

Local Grid Location ☐ N ☐ E
Feet ☐ S Feet ☐ W

Facility ID	County	County Code	Civil Town/City/or Village
113125320	**Dane**	**13**	**City of Madison**

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID (ppm)	Compressive Strength	Soil Properties: Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			0.0	0.0 - 0.6' CONCRETE	CONCRETE									
			1.0	0.6 - 1.2' SILT: some very fine to fine sand, little to some clay, little 1/2-1" angular gravel, dry, non-plastic, very soft, brown (10 YR 4/3)	ML			0						
	44.4		2.0	1.2 - 4.0' CLAY: little silt, trace very fine sand, medium plasticity, moist, medium stiff, dark brown mottling throughout, dark yellowish brown (10 YR 3/4)	CH			0						
			3.0											
			4.0	4.0 - 4.5' CLAY: little silt, trace very fine sand, medium plasticity, moist, medium stiff, dark brown mottling throughout, dark yellowish brown (10 YR 3/4)	CH									
	48		5.0	4.5 - 6.7' CLAY: trace silt, trace very fine sand, high plasticity, moist, very stiff, gray and dark brown mottling throughout, trace pockets of iron oxidation, trace black streaks throughout, dark yellowish brown (10 YR 3/4)	CH			0						
			6.0											
			7.0	6.7 - 8.0' CLAY: little silt, some very fine to fine sand, little 1/4-1/2" angular gravel, very stiff, medium plasticity, moist, gray mottling, iron oxidation and black streaks throughout, % of sand increases with depth, dark yellowish brown (10 YR 3/4)	CH			3.8						
			8.0	8.0 - 8.6' CLAY: little silt, some very fine to fine sand, little 1/4-1/2" angular gravel, very stiff, medium plasticity, moist, gray mottling, iron oxidation and black streaks throughout, % of sand increases with depth, dark yellowish brown (10 YR 3/4)	CH									
			9.0	8.6 - 12.0' SAND: very fine grained, little silt, trace 1/4-1/2" angular gravel, poorly sorted, moist, yellowish brown (10 YR 5/4)	SW			0.3						

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID	Compressive Strength	Soil Properties: Moisture Content	Soil Properties: Liquid Limit	Soil Properties: Placticity Index	Soil Properties: P 200	RQD/ Comments
	30		10.0											
			11.0					0						
			12.0											
	36		13.0	12.0 - 16.0' SAND: very fine grained, little silt, trace 1/4-1/2" angular gravel, poorly sorted, moist, yellowish brown (10 YR 5/4)	SW			0.4						
			14.0											
			15.0					0						
			16.0											
	60		17.0	16.0 - 21.0' SAND: very fine grained, little silt, trace 1/4-1/2" angular gravel, poorly sorted, moist, yellowish brown (10 YR 5/4)	SW			1.8						
			18.0											
			19.0					0.8						
			20.0											
			21.0					0.4						

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature

Firm ARCADIS
126 N. Jefferson St., Suite 400
Milwaukee, WI (414) 276-7742

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION
Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☒ Other ☐

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Madison-Kipp Corporation		**B-195**

Boring Drilled By:	Date Drilling Started	Date Drilling Completed	Drilling Method
Name: **Charles Rens** Firm: **Giles Engineering**	**2/27/2014**	**2/27/2014**	**Direct Push**

WI Unique Well No.	DNR Well ID No.	Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet MSL	Feet MSL	**2** inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☒
State Plane **399943.94711** N **2144064.24307** E Lat
of Section **5** , T **7** N, R **10 E** Long

Local Grid Location ☐ N ☐ E
Feet ☐ S Feet ☐ W

Facility ID	County	County Code	Civil Town/City/or Village
113125320	**Dane**	**13**	**City of Madison**

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID (ppm)	Compressive Strength	Soil Properties: Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			0.0	0.0 - 0.5' CONCRETE	CONCRETE									
				0.5 - 0.8' SLAG: 1/8-1/2" pieces of black vesicular slag, mixed in clay has green and orange streaks	FILL									
			1.0	0.8 - 1.7' SILT: trace very fine sand, trace clay, moist, low plasticity, medium stiff, dark brown and gray mottling throughout, pockets of orange iron oxidation, dark grayish brown (10 YR 4/2)	ML			0.5						
	44.4		2.0	1.7 - 2.9' CLAY: little silt, trace very fine sand, high plasticity, moist, medium stiff, trace dark brown mottling throughout, dark yellowish brown (10 YR 3/4)	CH			0.3						
			3.0	2.9 - 4.0' CLAY: some silt, trace to little very fine sand, high plasticity, moist, medium stiff, gray mottling throughout,pockets of dark orange staining, dark grayish brown (10 YR 3/2)	CH									
			4.0	4.0 - 4.3' CLAY: some silt, trace to little very fine sand, high plasticity, moist, medium stiff, gray mottling throughout,pockets of dark orange staining, dark grayish brown (10 YR 3/2)	CH CH			0.2						
	48		5.0 6.0	4.3 - 7.4' CLAY: trace silt, trace very fine sand, high plasticity, moist, stiff, gray mottling throughout, trace pockets of orange iron oxidation, trace black streaks, dark yellowish brown (10 YR 3/4)				0.3						
			7.0	7.4 - 8.0' CLAY: little silt, some very fine to fine sand, little 1/4" angular gravel, stiff, medium plasticity, moist, brown mottling, iron oxidation and black streaks throughout, dark yellowish brown (10 YR 3/4)	CH									
			8.0	8.0 - 8.9' CLAY: little silt, some very fine to fine sand, little 1/4" angular gravel, stiff, medium plasticity, moist, brown mottling, iron oxidation and black streaks throughout, dark yellowish brown (10 YR 3/4)	CH			0.2						
			9.0	8.9 - 12.0' SAND: very fine grained, little silt, trace 1/4-1/2" angular gravel, poorly sorted, moist, yellowish brown (10 YR 5/4)	SW									

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID	Compressive Strength	Soil Properties: Moisture Content	Soil Properties: Liquid Limit	Soil Properties: Placticity Index	Soil Properties: P 200	RQD/ Comments
	48		10.0											
			11.0					0.2						
			12.0	12.0 - 16.0' SAND: very fine grained, little silt, trace 1/4-1/2" angular gravel, poorly sorted, moist, yellowish brown (10 YR 5/4)	SW									
			13.0					0.1						
	48		14.0											
			15.0					0.3						
			16.0	16.0 - 21.0' SAND: very fine grained, little silt, trace 1/4-1/2" angular gravel, poorly sorted, moist, yellowish brown (10 YR 5/4)	SW									
			17.0					0.2						
			18.0											
	60		19.0					0.3						
			20.0											
			21.0					0.3						

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature

Firm ARCADIS
126 N. Jefferson St., Suite 400
Milwaukee, WI (414) 276-7742

This form is authorized by Chapters 281, 283, 289, 291, 293, and 299, Wis. Stats. Completion of this form is mandatory. Failure to file this form may result in forfeiture of between $10 and $25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. NOTE: See instructions for more information, including where the completed form should be sent.

State of Wis., Dept. of Natural Resources
dnr.wi.gov

Well / Drillhole / Borehole Filling & Sealing

Form 3300-005 (R 4/08)

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between $10-25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. Return form to the appropriate DNR office and bureau. See instructions on reverse for more information.

☐ **Verification Only of Fill and Seal**

Route to:
☐ Drinking Water ☐ Watershed/Wastewater ☒ Remediation/Redevelopment
☐ Waste Management ☐ Other: _____

1. Well Location Information

County	WI Unique Well No. Removed Well	Hicap #
Dane	_ _ _ _ _ _	

Lattitude / Longitude (Degrees and Minutes) — Method Code (see instructions)
__ __ ° __ __ . __ __ __ ' N
__ __ ° __ __ . __ __ __ ' W

1/4 / 1/4 or Gov't Lot #	1/4	Section	Township	Range	
	SW	5	7 N	10	☒ E ☐ W

Well Street Address: 201 Waubesa Street

Well City, Village or Town	Well ZIP Code
Madison	53704

Subdivision Name	Lot #

Reason For Removal From Service	WI Unique Well # of Replacement Well
Soil Boring	_ _ _ _ _ _

2. Facility / Owner Information

Facility Name	Common Well Name
Madison Kipp	B-136A

Facility ID (FID or PWS): 113125320
License/Permit/Monitoring #:
Original Well Owner:
Present Well Owner: Mark Meunier
Mailing Address of Present Owner: 201 Waubesa Street

City of Present Owner	State	ZIP Code
Madison	WI	53704

3. Well/Drillhole/Borehole Information

☐ Monitoring Well
☐ Water Well
☒ Borehole / Drillhole

Original Construction Date (mm/dd/yyyy): 01/15/2014
If a Well Construction Report is available, please attach.

Construction Type:
☒ Drilled ☐ Driven (Sandpoint) ☐ Dug
☐ Other (specify): _____

Formation Type:
☒ Unconsolidated Formation ☐ Bedrock

Total Well Depth From Groundsurface (ft.)	Casing Diameter (in.)
22	
Lower Drillhole Diameter (in.)	**Casing Depth (ft.)**
2	

Was well annular space grouted? ☐ Yes ☐ No ☐ Unknown

If yes, to what depth (feet)?	Depth to Water (feet)

4. Pump, Liner, Screen, Casing & Sealing Material

Pump and piping removed?	☐ Yes	☐ No	☒ N/A
Liner(s) removed?	☐ Yes	☐ No	☒ N/A
Screen removed?	☐ Yes	☐ No	☒ N/A
Casing left inplace?	☐ Yes	☐ No	☒ N/A
Was casing cut off below surface?	☐ Yes	☐ No	☒ N/A
Did sealing material rise to surface?	☒ Yes	☐ No	☐ N/A
Did material settle after 24 hours?	☐ Yes	☒ No	☐ N/A
If yes, was hole retopped?	☐ Yes	☐ No	☒ N/A
If bentonite chips were used, were they hydrated with water from a known safe source?	☒ Yes	☐ No	☐ N/A

Required Method of Placing Sealing Material
☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped
☒ Screened & Poured (Bentonite Chips) ☐ Other (Explain): _____

Sealing Materials
☐ Neat Cement Grout ☐ Clay-Sand Slurry (11 lb./gal. wt.)
☐ Sand-Cement (Concrete) Grout ☐ Bentonite-Sand Slurry " "
☐ Concrete ☐ Bentonite Chips

For Monitoring Wells and Monitoring Well Boreholes Only:
☐ Bentonite Chips ☐ Bentonite - Cement Grout
☒ Granular Bentonite ☐ Bentonite - Sand Slurry

5. Material Used to Fill Well / Drillhole

5. Material Used to Fill Well / Drillhole	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
Granular Bentonite	Surface	22	0.48 ft ^{3}	

6. Comments

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing (mm/dd/yyyy)
ARCADIS		01/15/2014

Street or Route	Telephone Number
126 N. Jefferson Street, Suite 400	414-276-7742

City	State	ZIP Code	Signature of Person Doing Work	Date Signed
Milwaukee	WI	53202	Bryan Kimball Ernst	01/15/2014

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Date Received | Noted By
Comments

Madisonkipp/WI001283/graphics/logs/b136a_aban.ai

State of Wis., Dept. of Natural Resources
dnr.wi.gov

Well / Drillhole / Borehole Filling & Sealing

Form 3300-005 (R 4/08)

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis.Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between $10-25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. Return form to the appropriate DNR office and bureau. See instructions on reverse for more information.

☐ **Verification Only of Fill and Seal**

Route to:
☐ Drinking Water ☐ Watershed/Wastewater ☒ Remediation/Redevelopment
☐ Waste Management ☐ Other:

1. Well Location Information

County	WI Unique Well No. Removed Well	Hicap #
Dane		

Lattitude / Longitude (Degrees and Minutes): ___° ___ . ___ ___ ___ ' N; ___° ___ . ___ ___ ___ ' W
Method Code (see instructions):

1/4 / 1/4 or Gov't Lot #	1/4	Section	Township	Range	
	SW	5	7 N	10	☒ E ☐ W

Well Street Address: 201 Waubesa Street

Well City, Village or Town	Well ZIP Code
Madison	53704

Subdivision Name	Lot #

Reason For Removal From Service	WI Unique Well # of Replacement Well
Soil Boring	

2. Facility / Owner Information

Facility Name	Common Well Name
Madison Kipp	B-148A

Facility ID (FID or PWS): 113125320
License/Permit/Monitoring #:
Original Well Owner:
Present Well Owner: Mark Meunier
Mailing Address of Present Owner: 201 Waubesa Street

City of Present Owner	State	ZIP Code
Madison	WI	53704

3. Well/Drillhole/Borehole Information

☐ Monitoring Well
☐ Water Well
☒ Borehole / Drillhole

Original Construction Date (mm/dd/yyyy): 01/02/2014
If a Well Construction Report is available, please attach.

Construction Type:
☒ Drilled ☐ Driven (Sandpoint) ☐ Dug
☐ Other (specify):

Formation Type:
☒ Unconsolidated Formation ☐ Bedrock

Total Well Depth From Groundsurface (ft.)	Casing Diameter (in.)
21	
Lower Drillhole Diameter (in.)	**Casing Depth (ft.)**
2	

Was well annular space grouted? ☐ Yes ☐ No ☐ Unknown

If yes, to what depth (feet)?	Depth to Water (feet)

4. Pump, Liner, Screen, Casing & Sealing Material

Pump and piping removed?	☐ Yes	☐ No	☒ N/A
Liner(s) removed?	☐ Yes	☐ No	☒ N/A
Screen removed?	☐ Yes	☐ No	☒ N/A
Casing left inplace?	☐ Yes	☐ No	☒ N/A
Was casing cut off below surface?	☐ Yes	☐ No	☒ N/A
Did sealing material rise to surface?	☒ Yes	☐ No	☐ N/A
Did material settle after 24 hours?	☐ Yes	☒ No	☐ N/A
If yes, was hole retopped?	☐ Yes	☐ No	☒ N/A
If bentonite chips were used, were they hydrated with water from a known safe source?	☒ Yes	☐ No	☐ N/A

Required Method of Placing Sealing Material
☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped
☒ Screened & Poured (Bentonite Chips) ☐ Other (Explain):

Sealing Materials
☐ Neat Cement Grout ☐ Clay-Sand Slurry (11 lb./gal. wt.)
☐ Sand-Cement (Concrete) Grout ☐ Bentonite-Sand Slurry " "
☐ Concrete ☐ Bentonite Chips

For Monitoring Wells and Monitoring Well Boreholes Only:
☐ Bentonite Chips ☐ Bentonite - Cement Grout
☒ Granular Bentonite ☐ Bentonite - Sand Slurry

5. Material Used to Fill Well / Drillhole	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
Granular Bentonite	Surface	21	0.46 ft ^{3}	

6. Comments

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing (mm/dd/yyyy)
ARCADIS		01/02/2014

Street or Route	Telephone Number
126 N. Jefferson Street, Suite 400	414-276-7742

City	State	ZIP Code	Signature of Person Doing Work	Date Signed
Milwaukee	WI	53202		01/02/2014

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Date Received | Noted By
Comments

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State of Wis., Dept. of Natural Resources
dnr.wi.gov

Well / Drillhole / Borehole Filling & Sealing

Form 3300-005 (R 4/08)

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between $10-25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. Return form to the appropriate DNR office and bureau. See instructions on reverse for more information.

☐ **Verification Only of Fill and Seal**

Route to:
☐ Drinking Water ☐ Watershed/Wastewater ☒ Remediation/Redevelopment
☐ Waste Management ☐ Other:

1. Well Location Information

County	WI Unique Well No. Removed Well	Hicap #
Dane		

Lattitude / Longitude (Degrees and Minutes) — Method Code (see instructions)
__ __ ° __ __ . __ __ __ ' N
__ __ ° __ __ . __ __ __ ' W

1/4 / 1/4 or Gov't Lot #	1/4	Section	Township	Range	
	SW	5	7 N	10	☒ E ☐ W

Well Street Address: 201 Waubesa Street

Well City, Village or Town	Well ZIP Code
Madison	53704

Subdivision Name	Lot #

Reason For Removal From Service: Soil Boring
WI Unique Well # of Replacement Well: __ __ __ __ __

2. Facility / Owner Information

Facility Name: Madison Kipp
Common Well Name: B-149A
Facility ID (FID or PWS): 113125320
License/Permit/Monitoring #:
Original Well Owner:
Present Well Owner: Mark Meunier
Mailing Address of Present Owner: 201 Waubesa Street

City of Present Owner	State	ZIP Code
Madison	WI	53704

3. Well/Drillhole/Borehole Information

☐ Monitoring Well
☐ Water Well
☒ Borehole / Drillhole

Original Construction Date (mm/dd/yyyy): 01/02/2014
If a Well Construction Report is available, please attach.

Construction Type:
☒ Drilled ☐ Driven (Sandpoint) ☐ Dug
☐ Other (specify):

Formation Type:
☒ Unconsolidated Formation ☐ Bedrock

Total Well Depth From Groundsurface (ft.)	Casing Diameter (in.)
12	
Lower Drillhole Diameter (in.)	**Casing Depth (ft.)**
2	

Was well annular space grouted? ☐ Yes ☐ No ☐ Unknown

If yes, to what depth (feet)?	Depth to Water (feet)

4. Pump, Liner, Screen, Casing & Sealing Material

Pump and piping removed?	☐ Yes	☐ No	☒ N/A
Liner(s) removed?	☐ Yes	☐ No	☒ N/A
Screen removed?	☐ Yes	☐ No	☒ N/A
Casing left inplace?	☐ Yes	☐ No	☒ N/A
Was casing cut off below surface?	☐ Yes	☐ No	☒ N/A
Did sealing material rise to surface?	☒ Yes	☐ No	☐ N/A
Did material settle after 24 hours?	☐ Yes	☒ No	☐ N/A
If yes, was hole retopped?	☐ Yes	☐ No	☒ N/A
If bentonite chips were used, were they hydrated with water from a known safe source?	☒ Yes	☐ No	☐ N/A

Required Method of Placing Sealing Material
☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped
☒ Screened & Poured (Bentonite Chips) ☐ Other (Explain):

Sealing Materials
☐ Neat Cement Grout ☐ Clay-Sand Slurry (11 lb./gal. wt.)
☐ Sand-Cement (Concrete) Grout ☐ Bentonite-Sand Slurry " "
☐ Concrete ☐ Bentonite Chips

For Monitoring Wells and Monitoring Well Boreholes Only:
☐ Bentonite Chips ☐ Bentonite - Cement Grout
☒ Granular Bentonite ☐ Bentonite - Sand Slurry

5. Material Used to Fill Well / Drillhole	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
Granular Bentonite	Surface	12	0.26 ft^3	

6. Comments

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing (mm/dd/yyyy)
ARCADIS		01/02/2014

Street or Route	Telephone Number
126 N. Jefferson Street, Suite 400	414-276-7742

City	State	ZIP Code	Signature of Person Doing Work	Date Signed
Milwaukee	WI	53202		01/02/2014

DNR Use Only
Date Received | Noted By
Comments

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State of Wis., Dept. of Natural Resources
dnr.wi.gov

Well / Drillhole / Borehole Filling & Sealing

Form 3300-005 (R 4/08)

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between $10-25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. Return form to the appropriate DNR office and bureau. See instructions on reverse for more information.

☐ **Verification Only of Fill and Seal**

Route to:
☐ Drinking Water ☐ Watershed/Wastewater ☒ Remediation/Redevelopment
☐ Waste Management ☐ Other: _____

1. Well Location Information

County	WI Unique Well No. Removed Well	Hicap #
Dane	_ _ _ _ _ _	

Lattitude / Longitude (Degrees and Minutes) — Method Code (see instructions)
__ __ ° __ __ . __ __ __ ' N
__ __ ° __ __ . __ __ __ ' W

1/4 / 1/4 or Gov't Lot #	1/4	Section	Township	Range	
	SW	5	7 N	10	☒ E ☐ W

Well Street Address: 201 Waubesa Street

Well City, Village or Town	Well ZIP Code
Madison	53704

Subdivision Name	Lot #

Reason For Removal From Service	WI Unique Well # of Replacement Well
Soil Boring	_ _ _ _ _ _

2. Facility / Owner Information

Facility Name	Common Well Name
Madison Kipp	B-150A

Facility ID (FID or PWS): 113125320
License/Permit/Monitoring #:
Original Well Owner:
Present Well Owner: Mark Meunier
Mailing Address of Present Owner: 201 Waubesa Street

City of Present Owner	State	ZIP Code
Madison	WI	53704

3. Well/Drillhole/Borehole Information

☐ Monitoring Well
☐ Water Well
☒ Borehole / Drillhole

Original Construction Date (mm/dd/yyyy): 01/02/2014
If a Well Construction Report is available, please attach.

Construction Type:
☒ Drilled ☐ Driven (Sandpoint) ☐ Dug
☐ Other (specify): _____

Formation Type:
☒ Unconsolidated Formation ☐ Bedrock

Total Well Depth From Groundsurface (ft.)	Casing Diameter (in.)
21	
Lower Drillhole Diameter (in.)	**Casing Depth (ft.)**
2	

Was well annular space grouted? ☐ Yes ☐ No ☐ Unknown

If yes, to what depth (feet)?	Depth to Water (feet)

4. Pump, Liner, Screen, Casing & Sealing Material

Pump and piping removed?	☐ Yes	☐ No	☒ N/A
Liner(s) removed?	☐ Yes	☐ No	☒ N/A
Screen removed?	☐ Yes	☐ No	☒ N/A
Casing left inplace?	☐ Yes	☐ No	☒ N/A
Was casing cut off below surface?	☐ Yes	☐ No	☒ N/A
Did sealing material rise to surface?	☒ Yes	☐ No	☐ N/A
Did material settle after 24 hours?	☐ Yes	☒ No	☐ N/A
If yes, was hole retopped?	☐ Yes	☐ No	☒ N/A
If bentonite chips were used, were they hydrated with water from a known safe source?	☒ Yes	☐ No	☐ N/A

Required Method of Placing Sealing Material
☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped
☒ Screened & Poured (Bentonite Chips) ☐ Other (Explain): _____

Sealing Materials
☐ Neat Cement Grout ☐ Clay-Sand Slurry (11 lb./gal. wt.)
☐ Sand-Cement (Concrete) Grout ☐ Bentonite-Sand Slurry " "
☐ Concrete ☐ Bentonite Chips

For Monitoring Wells and Monitoring Well Boreholes Only:
☐ Bentonite Chips ☐ Bentonite - Cement Grout
☒ Granular Bentonite ☐ Bentonite - Sand Slurry

5. Material Used to Fill Well / Drillhole

5. Material Used to Fill Well / Drillhole	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
Granular Bentonite	Surface	21	0.46 ft^3	

6. Comments

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing (mm/dd/yyyy)
ARCADIS		01/02/2014

Street or Route	Telephone Number
126 N. Jefferson Street, Suite 400	414-276-7742

City	State	ZIP Code	Signature of Person Doing Work	Date Signed
Milwaukee	WI	53202		01/02/2014

DNR Use Only

Date Received	Noted By
Comments	

Madisonkipp/WI001283/graphics/logs/b150a_aban.ai

State of Wis., Dept. of Natural Resources
dnr.wi.gov

Well / Drillhole / Borehole Filling & Sealing

Form 3300-005 (R 4/08)

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☐ **Verification Only of Fill and Seal**

Route to:
☐ Drinking Water ☐ Watershed/Wastewater ☒ Remediation/Redevelopment
☐ Waste Management ☐ Other: _____

1. Well Location Information

County	WI Unique Well No. Removed Well	Hicap #
Dane	_ _ _ _ _ _	

Lattitude / Longitude (Degrees and Minutes): __ __° __ __ . __ __ __ ' N; __ __° __ __ . __ __ __ ' W
Method Code (see instructions):

1/4 / 1/4 or Gov't Lot #	1/4	Section	Township	Range	
	SW	5	7 N	10	☒ E ☐ W

Well Street Address: 201 Waubesa Street

Well City, Village or Town	Well ZIP Code
Madison	53704

Subdivision Name	Lot #

Reason For Removal From Service	WI Unique Well # of Replacement Well
Soil Boring	_ _ _ _ _ _

2. Facility / Owner Information

Facility Name	Common Well Name
Madison Kipp	B-158A

Facility ID (FID or PWS): 113125320
License/Permit/Monitoring #:
Original Well Owner:
Present Well Owner: Mark Meunier
Mailing Address of Present Owner: 201 Waubesa Street

City of Present Owner	State	ZIP Code
Madison	WI	53704

3. Well/Drillhole/Borehole Information

☐ Monitoring Well
☐ Water Well
☒ Borehole / Drillhole

Original Construction Date (mm/dd/yyyy): 12/30/2013
If a Well Construction Report is available, please attach.

Construction Type:
☒ Drilled ☐ Driven (Sandpoint) ☐ Dug
☐ Other (specify): _____

Formation Type:
☒ Unconsolidated Formation ☐ Bedrock

Total Well Depth From Groundsurface (ft.)	Casing Diameter (in.)
17	
Lower Drillhole Diameter (in.)	**Casing Depth (ft.)**
2	

Was well annular space grouted? ☐ Yes ☐ No ☐ Unknown

If yes, to what depth (feet)?	Depth to Water (feet)

4. Pump, Liner, Screen, Casing & Sealing Material

Pump and piping removed?	☐ Yes	☐ No	☒ N/A
Liner(s) removed?	☐ Yes	☐ No	☒ N/A
Screen removed?	☐ Yes	☐ No	☒ N/A
Casing left inplace?	☐ Yes	☐ No	☒ N/A
Was casing cut off below surface?	☐ Yes	☐ No	☒ N/A
Did sealing material rise to surface?	☒ Yes	☐ No	☐ N/A
Did material settle after 24 hours?	☐ Yes	☒ No	☐ N/A
If yes, was hole retopped?	☐ Yes	☐ No	☒ N/A
If bentonite chips were used, were they hydrated with water from a known safe source?	☒ Yes	☐ No	☐ N/A

Required Method of Placing Sealing Material
☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped
☒ Screened & Poured (Bentonite Chips) ☐ Other (Explain): _____

Sealing Materials
☐ Neat Cement Grout ☐ Clay-Sand Slurry (11 lb./gal. wt.)
☐ Sand-Cement (Concrete) Grout ☐ Bentonite-Sand Slurry " "
☐ Concrete ☐ Bentonite Chips

For Monitoring Wells and Monitoring Well Boreholes Only:
☐ Bentonite Chips ☐ Bentonite - Cement Grout
☒ Granular Bentonite ☐ Bentonite - Sand Slurry

5. Material Used to Fill Well / Drillhole

From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
Granular Bentonite	Surface	17	0.37 ft^3	

6. Comments

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing (mm/dd/yyyy)
ARCADIS		12/30/2013

Street or Route	Telephone Number
126 N. Jefferson Street, Suite 400	414-276-7742

City	State	ZIP Code	Signature of Person Doing Work	Date Signed
Milwaukee	WI	53202		12/30/2013

DNR Use Only

Date Received	Noted By
Comments	

State of Wis., Dept. of Natural Resources
dnr.wi.gov

Well / Drillhole / Borehole Filling & Sealing

Form 3300-005 (R 4/08)

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☐ **Verification Only of Fill and Seal**

Route to:
☐ Drinking Water ☐ Watershed/Wastewater ☒ Remediation/Redevelopment
☐ Waste Management ☐ Other:

1. Well Location Information

County	WI Unique Well No. Removed Well	Hicap #
Dane		

Lattitude / Longitude (Degrees and Minutes): ___° ___ . ___ ___ ___ ' N; ___° ___ . ___ ___ ___ ' W
Method Code (see instructions):

1/4 / 1/4 or Gov't Lot #	1/4	Section	Township	Range	
	SW	5	7 N	10	☒ E ☐ W

Well Street Address: 201 Waubesa Street

Well City, Village or Town	Well ZIP Code
Madison	53704

Subdivision Name	Lot #

Reason For Removal From Service	WI Unique Well # of Replacement Well
Soil Boring	

2. Facility / Owner Information

Facility Name	Common Well Name
Madison Kipp	B-160A

Facility ID (FID or PWS): 113125320
License/Permit/Monitoring #:
Original Well Owner:
Present Well Owner: Mark Meunier
Mailing Address of Present Owner: 201 Waubesa Street

City of Present Owner	State	ZIP Code
Madison	WI	53704

3. Well/Drillhole/Borehole Information

☐ Monitoring Well
☐ Water Well
☒ Borehole / Drillhole

Original Construction Date (mm/dd/yyyy): 01/03/2014
If a Well Construction Report is available, please attach.

Construction Type:
☒ Drilled ☐ Driven (Sandpoint) ☐ Dug
☐ Other (specify):

Formation Type:
☒ Unconsolidated Formation ☐ Bedrock

Total Well Depth From Groundsurface (ft.)	Casing Diameter (in.)
19	
Lower Drillhole Diameter (in.)	**Casing Depth (ft.)**
2	

Was well annular space grouted? ☐ Yes ☐ No ☐ Unknown

If yes, to what depth (feet)?	Depth to Water (feet)

4. Pump, Liner, Screen, Casing & Sealing Material

Pump and piping removed?	☐ Yes	☐ No	☒ N/A
Liner(s) removed?	☐ Yes	☐ No	☒ N/A
Screen removed?	☐ Yes	☐ No	☒ N/A
Casing left inplace?	☐ Yes	☐ No	☒ N/A
Was casing cut off below surface?	☐ Yes	☐ No	☒ N/A
Did sealing material rise to surface?	☒ Yes	☐ No	☐ N/A
Did material settle after 24 hours?	☐ Yes	☒ No	☐ N/A
If yes, was hole retopped?	☐ Yes	☐ No	☒ N/A
If bentonite chips were used, were they hydrated with water from a known safe source?	☒ Yes	☐ No	☐ N/A

Required Method of Placing Sealing Material
☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped
☒ Screened & Poured (Bentonite Chips) ☐ Other (Explain):

Sealing Materials
☐ Neat Cement Grout ☐ Clay-Sand Slurry (11 lb./gal. wt.)
☐ Sand-Cement (Concrete) Grout ☐ Bentonite-Sand Slurry " "
☐ Concrete ☐ Bentonite Chips

For Monitoring Wells and Monitoring Well Boreholes Only:
☐ Bentonite Chips ☐ Bentonite - Cement Grout
☒ Granular Bentonite ☐ Bentonite - Sand Slurry

5. Material Used to Fill Well / Drillhole

5. Material Used to Fill Well / Drillhole	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
Granular Bentonite	Surface	19	0.41 ft^3	

6. Comments

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing (mm/dd/yyyy)
ARCADIS		01/03/2014

Street or Route	Telephone Number
126 N. Jefferson Street, Suite 400	414-276-7742

City	State	ZIP Code	Signature of Person Doing Work	Date Signed
Milwaukee	WI	53202		01/03/2014

DNR Use Only

Date Received	Noted By
Comments	

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State of Wis., Dept. of Natural Resources
dnr.wi.gov

Well / Drillhole / Borehole Filling & Sealing

Form 3300-005 (R 4/08)

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☐ **Verification Only of Fill and Seal**

Route to:
☐ Drinking Water ☐ Watershed/Wastewater ☒ Remediation/Redevelopment
☐ Waste Management ☐ Other:

1. Well Location Information

County	WI Unique Well No. Removed Well	Hicap #
Dane		

Lattitude / Longitude (Degrees and Minutes): ___° ___ . ___ ___ ___ ' N; ___° ___ . ___ ___ ___ ' W
Method Code (see instructions):

1/4 / 1/4 or Gov't Lot #	1/4	Section	Township	Range	
	SW	5	7 N	10	☒ E ☐ W

Well Street Address: 201 Waubesa Street

Well City, Village or Town	Well ZIP Code
Madison	53704

Subdivision Name	Lot #

Reason For Removal From Service	WI Unique Well # of Replacement Well
Soil Boring	

2. Facility / Owner Information

Facility Name	Common Well Name
Madison Kipp	B-175

Facility ID (FID or PWS): 113125320
License/Permit/Monitoring #:
Original Well Owner:
Present Well Owner: Mark Meunier
Mailing Address of Present Owner: 201 Waubesa Street

City of Present Owner	State	ZIP Code
Madison	WI	53704

3. Well/Drillhole/Borehole Information

☐ Monitoring Well
☐ Water Well
☒ Borehole / Drillhole

Original Construction Date (mm/dd/yyyy): 12/30/2013
If a Well Construction Report is available, please attach.

Construction Type:
☒ Drilled ☐ Driven (Sandpoint) ☐ Dug
☐ Other (specify):

Formation Type:
☒ Unconsolidated Formation ☐ Bedrock

Total Well Depth From Groundsurface (ft.)	Casing Diameter (in.)
21	
Lower Drillhole Diameter (in.)	**Casing Depth (ft.)**
2	

Was well annular space grouted? ☐ Yes ☐ No ☐ Unknown

If yes, to what depth (feet)?	Depth to Water (feet)

4. Pump, Liner, Screen, Casing & Sealing Material

Pump and piping removed?	☐ Yes	☐ No	☒ N/A
Liner(s) removed?	☐ Yes	☐ No	☒ N/A
Screen removed?	☐ Yes	☐ No	☒ N/A
Casing left inplace?	☐ Yes	☐ No	☒ N/A
Was casing cut off below surface?	☐ Yes	☐ No	☒ N/A
Did sealing material rise to surface?	☒ Yes	☐ No	☐ N/A
Did material settle after 24 hours?	☐ Yes	☒ No	☐ N/A
If yes, was hole retopped?	☐ Yes	☐ No	☒ N/A
If bentonite chips were used, were they hydrated with water from a known safe source?	☒ Yes	☐ No	☐ N/A

Required Method of Placing Sealing Material
☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped
☒ Screened & Poured (Bentonite Chips) ☐ Other (Explain):

Sealing Materials
☐ Neat Cement Grout ☐ Clay-Sand Slurry (11 lb./gal. wt.)
☐ Sand-Cement (Concrete) Grout ☐ Bentonite-Sand Slurry " "
☐ Concrete ☐ Bentonite Chips

For Monitoring Wells and Monitoring Well Boreholes Only:
☐ Bentonite Chips ☐ Bentonite - Cement Grout
☒ Granular Bentonite ☐ Bentonite - Sand Slurry

5. Material Used to Fill Well / Drillhole	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
Granular Bentonite	Surface	21	0.46 ft^3	

6. Comments

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing (mm/dd/yyyy)
ARCADIS		12/30/2013

Street or Route	Telephone Number
126 N. Jefferson Street, Suite 400	414-276-7742

City	State	ZIP Code	Signature of Person Doing Work	Date Signed
Milwaukee	WI	53202		12/30/2013

DNR Use Only

Date Received	Noted By
Comments	

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State of Wis., Dept. of Natural Resources
dnr.wi.gov

Well / Drillhole / Borehole Filling & Sealing

Form 3300-005 (R 4/08)

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☐ **Verification Only of Fill and Seal**

Route to:
☐ Drinking Water ☐ Watershed/Wastewater ☒ Remediation/Redevelopment
☐ Waste Management ☐ Other: _____

1. Well Location Information

County	WI Unique Well No. Removed Well	Hicap #
Dane	_ _ _ _ _ _	

Lattitude / Longitude (Degrees and Minutes) — Method Code (see instructions)
__ __ ° __ __ . __ __ __ ' N
__ __ ° __ __ . __ __ __ ' W

1/4 / 1/4 or Gov't Lot #	1/4	Section	Township	Range	
	SW	5	7 N	10	☒ E ☐ W

Well Street Address: 201 Waubesa Street

Well City, Village or Town	Well ZIP Code
Madison	53704

Subdivision Name	Lot #

Reason For Removal From Service	WI Unique Well # of Replacement Well
Soil Boring	_ _ _ _ _ _

2. Facility / Owner Information

Facility Name	Common Well Name
Madison Kipp	B-176

Facility ID (FID or PWS): 113125320
License/Permit/Monitoring #:
Original Well Owner:
Present Well Owner: Mark Meunier
Mailing Address of Present Owner: 201 Waubesa Street

City of Present Owner	State	ZIP Code
Madison	WI	53704

3. Well/Drillhole/Borehole Information

☐ Monitoring Well
☐ Water Well
☒ Borehole / Drillhole

Original Construction Date (mm/dd/yyyy): 12/30/2013
If a Well Construction Report is available, please attach.

Construction Type:
☒ Drilled ☐ Driven (Sandpoint) ☐ Dug
☐ Other (specify): _____

Formation Type:
☒ Unconsolidated Formation ☐ Bedrock

Total Well Depth From Groundsurface (ft.)	Casing Diameter (in.)
21	
Lower Drillhole Diameter (in.)	**Casing Depth (ft.)**
2	

Was well annular space grouted? ☐ Yes ☐ No ☐ Unknown

If yes, to what depth (feet)?	Depth to Water (feet)

4. Pump, Liner, Screen, Casing & Sealing Material

Pump and piping removed?	☐ Yes	☐ No	☒ N/A
Liner(s) removed?	☐ Yes	☐ No	☒ N/A
Screen removed?	☐ Yes	☐ No	☒ N/A
Casing left inplace?	☐ Yes	☐ No	☒ N/A
Was casing cut off below surface?	☐ Yes	☐ No	☒ N/A
Did sealing material rise to surface?	☒ Yes	☐ No	☐ N/A
Did material settle after 24 hours?	☐ Yes	☒ No	☐ N/A
If yes, was hole retopped?	☐ Yes	☐ No	☒ N/A
If bentonite chips were used, were they hydrated with water from a known safe source?	☒ Yes	☐ No	☐ N/A

Required Method of Placing Sealing Material
☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped
☒ Screened & Poured (Bentonite Chips) ☐ Other (Explain): _____

Sealing Materials
☐ Neat Cement Grout ☐ Clay-Sand Slurry (11 lb./gal. wt.)
☐ Sand-Cement (Concrete) Grout ☐ Bentonite-Sand Slurry " "
☐ Concrete ☐ Bentonite Chips

For Monitoring Wells and Monitoring Well Boreholes Only:
☐ Bentonite Chips ☐ Bentonite - Cement Grout
☒ Granular Bentonite ☐ Bentonite - Sand Slurry

5. Material Used to Fill Well / Drillhole	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
Granular Bentonite	Surface	21	0.46 ft^3	

6. Comments

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing (mm/dd/yyyy)
ARCADIS		12/30/2013

Street or Route	Telephone Number
126 N. Jefferson Street, Suite 400	414-276-7742

City	State	ZIP Code	Signature of Person Doing Work	Date Signed
Milwaukee	WI	53202		12/30/2013

DNR Use Only

Date Received	Noted By
Comments	

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dnr.wi.gov

Well / Drillhole / Borehole Filling & Sealing

Form 3300-005 (R 4/08)

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☐ **Verification Only of Fill and Seal**

Route to:
☐ Drinking Water ☐ Watershed/Wastewater ☒ Remediation/Redevelopment
☐ Waste Management ☐ Other: _____

1. Well Location Information

County	WI Unique Well No. Removed Well	Hicap #
Dane	_ _ _ _ _ _	

Lattitude / Longitude (Degrees and Minutes) — Method Code (see instructions)
__ __ ° __ __ . __ __ __ ' N
__ __ ° __ __ . __ __ __ ' W

1/4 / 1/4 or Gov't Lot #	1/4	Section	Township	Range	
	SW	5	7 N	10	☒ E ☐ W

Well Street Address: 201 Waubesa Street

Well City, Village or Town	Well ZIP Code
Madison	53704

Subdivision Name	Lot #

Reason For Removal From Service: Soil Boring
WI Unique Well # of Replacement Well: _ _ _ _ _ _

2. Facility / Owner Information

Facility Name	Common Well Name
Madison Kipp	B-177

Facility ID (FID or PWS): 113125320
License/Permit/Monitoring #:
Original Well Owner:
Present Well Owner: Mark Meunier
Mailing Address of Present Owner: 201 Waubesa Street

City of Present Owner	State	ZIP Code
Madison	WI	53704

3. Well/Drillhole/Borehole Information

☐ Monitoring Well
☐ Water Well
☒ Borehole / Drillhole

Original Construction Date (mm/dd/yyyy): 01/03/2014
If a Well Construction Report is available, please attach.

Construction Type:
☒ Drilled ☐ Driven (Sandpoint) ☐ Dug
☐ Other (specify): _____

Formation Type:
☒ Unconsolidated Formation ☐ Bedrock

Total Well Depth From Groundsurface (ft.)	Casing Diameter (in.)
7.5	
Lower Drillhole Diameter (in.)	**Casing Depth (ft.)**
2	

Was well annular space grouted? ☐ Yes ☐ No ☐ Unknown

If yes, to what depth (feet)?	Depth to Water (feet)

4. Pump, Liner, Screen, Casing & Sealing Material

Pump and piping removed?	☐ Yes	☐ No	☒ N/A
Liner(s) removed?	☐ Yes	☐ No	☒ N/A
Screen removed?	☐ Yes	☐ No	☒ N/A
Casing left inplace?	☐ Yes	☐ No	☒ N/A
Was casing cut off below surface?	☐ Yes	☐ No	☒ N/A
Did sealing material rise to surface?	☒ Yes	☐ No	☐ N/A
Did material settle after 24 hours?	☐ Yes	☒ No	☐ N/A
If yes, was hole retopped?	☐ Yes	☐ No	☒ N/A
If bentonite chips were used, were they hydrated with water from a known safe source?	☒ Yes	☐ No	☐ N/A

Required Method of Placing Sealing Material
☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped
☒ Screened & Poured (Bentonite Chips) ☐ Other (Explain): _____

Sealing Materials
☐ Neat Cement Grout ☐ Clay-Sand Slurry (11 lb./gal. wt.)
☐ Sand-Cement (Concrete) Grout ☐ Bentonite-Sand Slurry " "
☐ Concrete ☐ Bentonite Chips

For Monitoring Wells and Monitoring Well Boreholes Only:
☐ Bentonite Chips ☐ Bentonite - Cement Grout
☒ Granular Bentonite ☐ Bentonite - Sand Slurry

5. Material Used to Fill Well / Drillhole	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
Granular Bentonite	Surface	7.5	0.16 ft^3	

6. Comments

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing (mm/dd/yyyy)
ARCADIS		01/03/2014

Street or Route	Telephone Number
126 N. Jefferson Street, Suite 400	414-276-7742

City	State	ZIP Code	Signature of Person Doing Work	Date Signed
Milwaukee	WI	53202		01/03/2014

DNR Use Only

Date Received	Noted By
Comments	

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State of Wis., Dept. of Natural Resources
dnr.wi.gov

Well / Drillhole / Borehole Filling & Sealing

Form 3300-005 (R 4/08)

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☐ **Verification Only of Fill and Seal**

Route to:
☐ Drinking Water ☐ Watershed/Wastewater ☒ Remediation/Redevelopment
☐ Waste Management ☐ Other: _____

1. Well Location Information

County	WI Unique Well No. Removed Well	Hicap #
Dane	_ _ _ _ _ _	

Lattitude / Longitude (Degrees and Minutes) — Method Code (see instructions)
__ __ ° __ __ . __ __ __ ' N
__ __ ° __ __ . __ __ __ ' W

1/4 / 1/4 or Gov't Lot #	1/4	Section	Township	Range	
	SW	5	7 N	10	☒ E ☐ W

Well Street Address: 201 Waubesa Street

Well City, Village or Town	Well ZIP Code
Madison	53704

Subdivision Name	Lot #

Reason For Removal From Service	WI Unique Well # of Replacement Well
Soil Boring	_ _ _ _ _ _

2. Facility / Owner Information

Facility Name	Common Well Name
Madison Kipp	B-178

Facility ID (FID or PWS): 113125320
License/Permit/Monitoring #:
Original Well Owner:
Present Well Owner: Mark Meunier
Mailing Address of Present Owner: 201 Waubesa Street

City of Present Owner	State	ZIP Code
Madison	WI	53704

3. Well/Drillhole/Borehole Information

☐ Monitoring Well
☐ Water Well
☒ Borehole / Drillhole

Original Construction Date (mm/dd/yyyy): 01/02/2014
If a Well Construction Report is available, please attach.

Construction Type:
☒ Drilled ☐ Driven (Sandpoint) ☐ Dug
☐ Other (specify): _____

Formation Type:
☒ Unconsolidated Formation ☐ Bedrock

Total Well Depth From Groundsurface (ft.)	Casing Diameter (in.)
12	
Lower Drillhole Diameter (in.)	**Casing Depth (ft.)**
2	

Was well annular space grouted? ☐ Yes ☐ No ☐ Unknown

If yes, to what depth (feet)?	Depth to Water (feet)

4. Pump, Liner, Screen, Casing & Sealing Material

Pump and piping removed?	☐ Yes	☐ No	☒ N/A
Liner(s) removed?	☐ Yes	☐ No	☒ N/A
Screen removed?	☐ Yes	☐ No	☒ N/A
Casing left inplace?	☐ Yes	☐ No	☒ N/A
Was casing cut off below surface?	☐ Yes	☐ No	☒ N/A
Did sealing material rise to surface?	☒ Yes	☐ No	☐ N/A
Did material settle after 24 hours?	☐ Yes	☒ No	☐ N/A
If yes, was hole retopped?	☐ Yes	☐ No	☒ N/A
If bentonite chips were used, were they hydrated with water from a known safe source?	☒ Yes	☐ No	☐ N/A

Required Method of Placing Sealing Material
☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped
☒ Screened & Poured (Bentonite Chips) ☐ Other (Explain): _____

Sealing Materials
☐ Neat Cement Grout ☐ Clay-Sand Slurry (11 lb./gal. wt.)
☐ Sand-Cement (Concrete) Grout ☐ Bentonite-Sand Slurry " "
☐ Concrete ☐ Bentonite Chips

For Monitoring Wells and Monitoring Well Boreholes Only:
☐ Bentonite Chips ☐ Bentonite - Cement Grout
☒ Granular Bentonite ☐ Bentonite - Sand Slurry

5. Material Used to Fill Well / Drillhole	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
Granular Bentonite	Surface	12	0.26 ft ^{3}	

6. Comments

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing (mm/dd/yyyy)
ARCADIS		01/02/2014

Street or Route	Telephone Number
126 N. Jefferson Street, Suite 400	414-276-7742

City	State	ZIP Code	Signature of Person Doing Work	Date Signed
Milwaukee	WI	53202		01/02/2014

DNR Use Only

Date Received	Noted By
Comments	

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dnr.wi.gov

Well / Drillhole / Borehole Filling & Sealing

Form 3300-005 (R 4/08)

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☐ **Verification Only of Fill and Seal**

Route to:
☐ Drinking Water ☐ Watershed/Wastewater ☒ Remediation/Redevelopment
☐ Waste Management ☐ Other: _____

1. Well Location Information

County	WI Unique Well No. Removed Well	Hicap #
Dane	_ _ _ _ _ _	

Lattitude / Longitude (Degrees and Minutes) — Method Code (see instructions)
__ __ ° __ __ . __ __ __ ' N
__ __ ° __ __ . __ __ __ ' W

1/4 / 1/4 or Gov't Lot #	1/4	Section	Township	Range	
	SW	5	7 N	10	☒ E ☐ W

Well Street Address: 201 Waubesa Street

Well City, Village or Town	Well ZIP Code
Madison	53704

Subdivision Name	Lot #

Reason For Removal From Service	WI Unique Well # of Replacement Well
Soil Boring	_ _ _ _ _ _

2. Facility / Owner Information

Facility Name	Common Well Name
Madison Kipp	B-179

Facility ID (FID or PWS): 113125320
License/Permit/Monitoring #:
Original Well Owner:
Present Well Owner: Mark Meunier
Mailing Address of Present Owner: 201 Waubesa Street

City of Present Owner	State	ZIP Code
Madison	WI	53704

3. Well/Drillhole/Borehole Information

☐ Monitoring Well
☐ Water Well
☒ Borehole / Drillhole

Original Construction Date (mm/dd/yyyy): 01/03/2014
If a Well Construction Report is available, please attach.

Construction Type:
☒ Drilled ☐ Driven (Sandpoint) ☐ Dug
☐ Other (specify): _____

Formation Type:
☒ Unconsolidated Formation ☐ Bedrock

Total Well Depth From Groundsurface (ft.)	Casing Diameter (in.)
25	
Lower Drillhole Diameter (in.)	**Casing Depth (ft.)**
2	

Was well annular space grouted? ☐ Yes ☐ No ☐ Unknown

If yes, to what depth (feet)?	Depth to Water (feet)

4. Pump, Liner, Screen, Casing & Sealing Material

Pump and piping removed?	☐ Yes	☐ No	☒ N/A
Liner(s) removed?	☐ Yes	☐ No	☒ N/A
Screen removed?	☐ Yes	☐ No	☒ N/A
Casing left inplace?	☐ Yes	☐ No	☒ N/A
Was casing cut off below surface?	☐ Yes	☐ No	☒ N/A
Did sealing material rise to surface?	☒ Yes	☐ No	☐ N/A
Did material settle after 24 hours?	☐ Yes	☒ No	☐ N/A
If yes, was hole retopped?	☐ Yes	☐ No	☒ N/A
If bentonite chips were used, were they hydrated with water from a known safe source?	☒ Yes	☐ No	☐ N/A

Required Method of Placing Sealing Material
☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped
☒ Screened & Poured (Bentonite Chips) ☐ Other (Explain): _____

Sealing Materials
☐ Neat Cement Grout ☐ Clay-Sand Slurry (11 lb./gal. wt.)
☐ Sand-Cement (Concrete) Grout ☐ Bentonite-Sand Slurry " "
☐ Concrete ☐ Bentonite Chips

For Monitoring Wells and Monitoring Well Boreholes Only:
☐ Bentonite Chips ☐ Bentonite - Cement Grout
☒ Granular Bentonite ☐ Bentonite - Sand Slurry

5. Material Used to Fill Well / Drillhole	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
Granular Bentonite	Surface	25	0.55 ft ^{3}	

6. Comments

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing (mm/dd/yyyy)
ARCADIS		01/03/2014

Street or Route	Telephone Number
126 N. Jefferson Street, Suite 400	414-276-7742

City	State	ZIP Code	Signature of Person Doing Work	Date Signed
Milwaukee	WI	53202		01/03/2014

DNR Use Only

Date Received	Noted By
Comments	

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dnr.wi.gov

Well / Drillhole / Borehole Filling & Sealing

Form 3300-005 (R 4/08)

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☐ **Verification Only of Fill and Seal**

Route to:
☐ Drinking Water ☐ Watershed/Wastewater ☒ Remediation/Redevelopment
☐ Waste Management ☐ Other: _____

1. Well Location Information

County	WI Unique Well No. Removed Well	Hicap #
Dane	_ _ _ _ _	

Lattitude / Longitude (Degrees and Minutes) ___ ___ ° ___ ___ . ___ ___ ___ ' N / ___ ___ ° ___ ___ . ___ ___ ___ ' W

Method Code (see instructions)

1/4 / 1/4 or Gov't Lot #	1/4	Section	Township	Range	
	SW	5	7 N	10	☒ E ☐ W

Well Street Address: 201 Waubesa Street

Well City, Village or Town	Well ZIP Code
Madison	53704

Subdivision Name	Lot #

Reason For Removal From Service	WI Unique Well # of Replacement Well
Soil Boring	_ _ _ _ _

2. Facility / Owner Information

Facility Name	Common Well Name
Madison Kipp	B-180

Facility ID (FID or PWS): 113125320

License/Permit/Monitoring #:

Original Well Owner:

Present Well Owner: Mark Meunier

Mailing Address of Present Owner: 201 Waubesa Street

City of Present Owner	State	ZIP Code
Madison	WI	53704

3. Well/Drillhole/Borehole Information

☐ Monitoring Well
☐ Water Well
☒ Borehole / Drillhole

Original Construction Date (mm/dd/yyyy): 01/02/2014

If a Well Construction Report is available, please attach.

Construction Type:
☒ Drilled ☐ Driven (Sandpoint) ☐ Dug
☐ Other (specify): _____

Formation Type:
☒ Unconsolidated Formation ☐ Bedrock

Total Well Depth From Groundsurface (ft.)	Casing Diameter (in.)
18	
Lower Drillhole Diameter (in.)	**Casing Depth (ft.)**
2	

Was well annular space grouted? ☐ Yes ☐ No ☐ Unknown

If yes, to what depth (feet)?	Depth to Water (feet)

4. Pump, Liner, Screen, Casing & Sealing Material

Pump and piping removed?	☐ Yes	☐ No	☒ N/A
Liner(s) removed?	☐ Yes	☐ No	☒ N/A
Screen removed?	☐ Yes	☐ No	☒ N/A
Casing left inplace?	☐ Yes	☐ No	☒ N/A
Was casing cut off below surface?	☐ Yes	☐ No	☒ N/A
Did sealing material rise to surface?	☒ Yes	☐ No	☐ N/A
Did material settle after 24 hours?	☐ Yes	☒ No	☐ N/A
If yes, was hole retopped?	☐ Yes	☐ No	☒ N/A
If bentonite chips were used, were they hydrated with water from a known safe source?	☒ Yes	☐ No	☐ N/A

Required Method of Placing Sealing Material
☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped
☒ Screened & Poured (Bentonite Chips) ☐ Other (Explain): _____

Sealing Materials
☐ Neat Cement Grout ☐ Clay-Sand Slurry (11 lb./gal. wt.)
☐ Sand-Cement (Concrete) Grout ☐ Bentonite-Sand Slurry " "
☐ Concrete ☐ Bentonite Chips

For Monitoring Wells and Monitoring Well Boreholes Only:
☐ Bentonite Chips ☐ Bentonite - Cement Grout
☒ Granular Bentonite ☐ Bentonite - Sand Slurry

5. Material Used to Fill Well / Drillhole

From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
Granular Bentonite			
Surface	18	0.39 ft ^{3}	

6. Comments

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing (mm/dd/yyyy)
ARCADIS		01/02/2014

Street or Route	Telephone Number
126 N. Jefferson Street, Suite 400	414-276-7742

City	State	ZIP Code	Signature of Person Doing Work	Date Signed
Milwaukee	WI	53202		01/02/2014

DNR Use Only

Date Received	Noted By
Comments	

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State of Wis., Dept. of Natural Resources
dnr.wi.gov

Well / Drillhole / Borehole Filling & Sealing

Form 3300-005 (R 4/08)

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☐ **Verification Only of Fill and Seal**

Route to:
☐ Drinking Water ☐ Watershed/Wastewater ☒ Remediation/Redevelopment
☐ Waste Management ☐ Other: _____

1. Well Location Information

County	WI Unique Well No. Removed Well	Hicap #
Dane	_ _ _ _ _ _	

Lattitude / Longitude (Degrees and Minutes) — Method Code (see instructions)
__ __ ° __ __ . __ __ __ ' N
__ __ ° __ __ . __ __ __ ' W

1/4 / 1/4 or Gov't Lot #	1/4	Section	Township	Range	
	SW	5	7 N	10	☒ E ☐ W

Well Street Address: 201 Waubesa Street

Well City, Village or Town	Well ZIP Code
Madison	53704

Subdivision Name	Lot #

Reason For Removal From Service	WI Unique Well # of Replacement Well
Soil Boring	_ _ _ _ _ _

2. Facility / Owner Information

Facility Name	Common Well Name
Madison Kipp	B-181

Facility ID (FID or PWS): 113125320
License/Permit/Monitoring #:
Original Well Owner:
Present Well Owner: Mark Meunier
Mailing Address of Present Owner: 201 Waubesa Street

City of Present Owner	State	ZIP Code
Madison	WI	53704

3. Well/Drillhole/Borehole Information

☐ Monitoring Well
☐ Water Well
☒ Borehole / Drillhole

Original Construction Date (mm/dd/yyyy): 01/02/2014
If a Well Construction Report is available, please attach.

Construction Type:
☒ Drilled ☐ Driven (Sandpoint) ☐ Dug
☐ Other (specify): _____

Formation Type:
☒ Unconsolidated Formation ☐ Bedrock

Total Well Depth From Groundsurface (ft.)	Casing Diameter (in.)
21	
Lower Drillhole Diameter (in.)	**Casing Depth (ft.)**
2	

Was well annular space grouted? ☐ Yes ☐ No ☐ Unknown

If yes, to what depth (feet)?	Depth to Water (feet)

4. Pump, Liner, Screen, Casing & Sealing Material

Pump and piping removed?	☐ Yes	☐ No	☒ N/A
Liner(s) removed?	☐ Yes	☐ No	☒ N/A
Screen removed?	☐ Yes	☐ No	☒ N/A
Casing left inplace?	☐ Yes	☐ No	☒ N/A
Was casing cut off below surface?	☐ Yes	☐ No	☒ N/A
Did sealing material rise to surface?	☒ Yes	☐ No	☐ N/A
Did material settle after 24 hours?	☐ Yes	☒ No	☐ N/A
If yes, was hole retopped?	☐ Yes	☐ No	☒ N/A
If bentonite chips were used, were they hydrated with water from a known safe source?	☒ Yes	☐ No	☐ N/A

Required Method of Placing Sealing Material
☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped
☒ Screened & Poured (Bentonite Chips) ☐ Other (Explain): _____

Sealing Materials
☐ Neat Cement Grout ☐ Clay-Sand Slurry (11 lb./gal. wt.)
☐ Sand-Cement (Concrete) Grout ☐ Bentonite-Sand Slurry " "
☐ Concrete ☐ Bentonite Chips

For Monitoring Wells and Monitoring Well Boreholes Only:
☐ Bentonite Chips ☐ Bentonite - Cement Grout
☒ Granular Bentonite ☐ Bentonite - Sand Slurry

5. Material Used to Fill Well / Drillhole

5. Material Used to Fill Well / Drillhole	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
Granular Bentonite	Surface	21	0.46 ft ^{3}	

6. Comments

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing (mm/dd/yyyy)
ARCADIS		01/02/2014

Street or Route	Telephone Number
126 N. Jefferson Street, Suite 400	414-276-7742

City	State	ZIP Code	Signature of Person Doing Work	Date Signed
Milwaukee	WI	53202		01/02/2014

DNR Use Only

Date Received	Noted By
Comments	

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State of Wis., Dept. of Natural Resources
dnr.wi.gov

Well / Drillhole / Borehole Filling & Sealing

Form 3300-005 (R 4/08)

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☐ **Verification Only of Fill and Seal**

Route to:
☐ Drinking Water ☐ Watershed/Wastewater ☒ Remediation/Redevelopment
☐ Waste Management ☐ Other: _____

1. Well Location Information

County	WI Unique Well No. Removed Well	Hicap #
Dane	_ _ _ _ _ _	

Lattitude / Longitude (Degrees and Minutes) — Method Code (see instructions)
__ __ ° __ __ . __ __ __ ' N
__ __ ° __ __ . __ __ __ ' W

1/4 / 1/4 or Gov't Lot #	1/4	Section	Township	Range	
	SW	5	7 N	10	☒ E ☐ W

Well Street Address: 201 Waubesa Street

Well City, Village or Town	Well ZIP Code
Madison	53704

Subdivision Name	Lot #

Reason For Removal From Service	WI Unique Well # of Replacement Well
Soil Boring	_ _ _ _ _ _

2. Facility / Owner Information

Facility Name	Common Well Name
Madison Kipp	B-182

Facility ID (FID or PWS): 113125320
License/Permit/Monitoring #:
Original Well Owner:
Present Well Owner: Mark Meunier
Mailing Address of Present Owner: 201 Waubesa Street

City of Present Owner	State	ZIP Code
Madison	WI	53704

3. Well/Drillhole/Borehole Information

☐ Monitoring Well
☐ Water Well
☒ Borehole / Drillhole

Original Construction Date (mm/dd/yyyy): 01/02/2014
If a Well Construction Report is available, please attach.

Construction Type:
☒ Drilled ☐ Driven (Sandpoint) ☐ Dug
☐ Other (specify): _____

Formation Type:
☒ Unconsolidated Formation ☐ Bedrock

Total Well Depth From Groundsurface (ft.)	Casing Diameter (in.)
15.5	
Lower Drillhole Diameter (in.)	**Casing Depth (ft.)**
2	

Was well annular space grouted? ☐ Yes ☐ No ☐ Unknown

If yes, to what depth (feet)?	Depth to Water (feet)

4. Pump, Liner, Screen, Casing & Sealing Material

Pump and piping removed?	☐ Yes	☐ No	☒ N/A
Liner(s) removed?	☐ Yes	☐ No	☒ N/A
Screen removed?	☐ Yes	☐ No	☒ N/A
Casing left inplace?	☐ Yes	☐ No	☒ N/A
Was casing cut off below surface?	☐ Yes	☐ No	☒ N/A
Did sealing material rise to surface?	☒ Yes	☐ No	☐ N/A
Did material settle after 24 hours?	☐ Yes	☒ No	☐ N/A
If yes, was hole retopped?	☐ Yes	☐ No	☒ N/A
If bentonite chips were used, were they hydrated with water from a known safe source?	☒ Yes	☐ No	☐ N/A

Required Method of Placing Sealing Material
☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped
☒ Screened & Poured (Bentonite Chips) ☐ Other (Explain): _____

Sealing Materials
☐ Neat Cement Grout ☐ Clay-Sand Slurry (11 lb./gal. wt.)
☐ Sand-Cement (Concrete) Grout ☐ Bentonite-Sand Slurry " "
☐ Concrete ☐ Bentonite Chips

For Monitoring Wells and Monitoring Well Boreholes Only:
☐ Bentonite Chips ☐ Bentonite - Cement Grout
☒ Granular Bentonite ☐ Bentonite - Sand Slurry

5. Material Used to Fill Well / Drillhole	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
Granular Bentonite	Surface	15.5	0.34 ft ^{3}	

6. Comments

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing (mm/dd/yyyy)
ARCADIS		01/02/2014

Street or Route	Telephone Number
126 N. Jefferson Street, Suite 400	414-276-7742

City	State	ZIP Code	Signature of Person Doing Work	Date Signed
Milwaukee	WI	53202		01/02/2014

DNR Use Only

Date Received	Noted By
Comments	

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dnr.wi.gov

Well / Drillhole / Borehole Filling & Sealing

Form 3300-005 (R 4/08)

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☐ **Verification Only of Fill and Seal**

Route to:
☐ Drinking Water ☐ Watershed/Wastewater ☒ Remediation/Redevelopment
☐ Waste Management ☐ Other: _____

1. Well Location Information

County	WI Unique Well No. Removed Well	Hicap #
Dane	_ _ _ _ _ _	

Lattitude / Longitude (Degrees and Minutes) — Method Code (see instructions)
__ __ ° __ __ . __ __ __ ' N
__ __ ° __ __ . __ __ __ ' W

1/4 / 1/4 or Gov't Lot #	1/4	Section	Township	Range	
	SW	5	7 N	10	☒ E ☐ W

Well Street Address: 201 Waubesa Street

Well City, Village or Town	Well ZIP Code
Madison	53704

Subdivision Name	Lot #

Reason For Removal From Service	WI Unique Well # of Replacement Well
Soil Boring	_ _ _ _ _ _

2. Facility / Owner Information

Facility Name	Common Well Name
Madison Kipp	B-183

Facility ID (FID or PWS): 113125320
License/Permit/Monitoring #:
Original Well Owner:
Present Well Owner: Mark Meunier
Mailing Address of Present Owner: 201 Waubesa Street

City of Present Owner	State	ZIP Code
Madison	WI	53704

3. Well/Drillhole/Borehole Information

☐ Monitoring Well
☐ Water Well
☒ Borehole / Drillhole

Original Construction Date (mm/dd/yyyy): 01/03/2014
If a Well Construction Report is available, please attach.

Construction Type:
☒ Drilled ☐ Driven (Sandpoint) ☐ Dug
☐ Other (specify): _____

Formation Type:
☒ Unconsolidated Formation ☐ Bedrock

Total Well Depth From Groundsurface (ft.)	Casing Diameter (in.)
21	
Lower Drillhole Diameter (in.)	**Casing Depth (ft.)**
2	

Was well annular space grouted? ☐ Yes ☐ No ☐ Unknown

If yes, to what depth (feet)?	Depth to Water (feet)

4. Pump, Liner, Screen, Casing & Sealing Material

Pump and piping removed?	☐ Yes	☐ No	☒ N/A
Liner(s) removed?	☐ Yes	☐ No	☒ N/A
Screen removed?	☐ Yes	☐ No	☒ N/A
Casing left inplace?	☐ Yes	☐ No	☒ N/A
Was casing cut off below surface?	☐ Yes	☐ No	☒ N/A
Did sealing material rise to surface?	☒ Yes	☐ No	☐ N/A
Did material settle after 24 hours?	☐ Yes	☒ No	☐ N/A
If yes, was hole retopped?	☐ Yes	☐ No	☒ N/A
If bentonite chips were used, were they hydrated with water from a known safe source?	☒ Yes	☐ No	☐ N/A

Required Method of Placing Sealing Material
☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped
☒ Screened & Poured (Bentonite Chips) ☐ Other (Explain): _____

Sealing Materials
☐ Neat Cement Grout ☐ Clay-Sand Slurry (11 lb./gal. wt.)
☐ Sand-Cement (Concrete) Grout ☐ Bentonite-Sand Slurry " "
☐ Concrete ☐ Bentonite Chips

For Monitoring Wells and Monitoring Well Boreholes Only:
☐ Bentonite Chips ☐ Bentonite - Cement Grout
☒ Granular Bentonite ☐ Bentonite - Sand Slurry

5. Material Used to Fill Well / Drillhole

5. Material Used to Fill Well / Drillhole	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
Granular Bentonite	Surface	21	0.46 ft^3	

6. Comments

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing (mm/dd/yyyy)
ARCADIS		01/03/2014

Street or Route	Telephone Number
126 N. Jefferson Street, Suite 400	414-276-7742

City	State	ZIP Code	Signature of Person Doing Work	Date Signed
Milwaukee	WI	53202		01/03/2014

DNR Use Only

Date Received	Noted By
Comments	

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State of Wis., Dept. of Natural Resources
dnr.wi.gov

Well / Drillhole / Borehole Filling & Sealing

Form 3300-005 (R 4/08)

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between $10-25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. Return form to the appropriate DNR office and bureau. See instructions on reverse for more information.

☐ **Verification Only of Fill and Seal**

Route to:
☐ Drinking Water ☐ Watershed/Wastewater ☒ Remediation/Redevelopment
☐ Waste Management ☐ Other: _____

1. Well Location Information

County	WI Unique Well No. Removed Well	Hicap #
Dane	_ _ _ _ _	

Lattitude / Longitude (Degrees and Minutes) ___° ___ . ___ ___ ___ ' N / ___° ___ . ___ ___ ___ ' W

Method Code (see instructions)

1/4 / 1/4 or Gov't Lot #	1/4	Section	Township	Range	
	SW	5	7 N	10	☒ E ☐ W

Well Street Address: 201 Waubesa Street

Well City, Village or Town	Well ZIP Code
Madison	53704

Subdivision Name	Lot #

Reason For Removal From Service	WI Unique Well # of Replacement Well
Soil Boring	_ _ _ _ _

2. Facility / Owner Information

Facility Name	Common Well Name
Madison Kipp	B-184

Facility ID (FID or PWS): 113125320

License/Permit/Monitoring #:

Original Well Owner:

Present Well Owner: Mark Meunier

Mailing Address of Present Owner: 201 Waubesa Street

City of Present Owner	State	ZIP Code
Madison	WI	53704

3. Well/Drillhole/Borehole Information

☐ Monitoring Well
☐ Water Well
☒ Borehole / Drillhole

Original Construction Date (mm/dd/yyyy): 01/03/2014

If a Well Construction Report is available, please attach.

Construction Type:
☒ Drilled ☐ Driven (Sandpoint) ☐ Dug
☐ Other (specify): _____

Formation Type:
☒ Unconsolidated Formation ☐ Bedrock

Total Well Depth From Groundsurface (ft.)	Casing Diameter (in.)
21	
Lower Drillhole Diameter (in.)	**Casing Depth (ft.)**
2	

Was well annular space grouted? ☐ Yes ☐ No ☐ Unknown

If yes, to what depth (feet)?	Depth to Water (feet)

4. Pump, Liner, Screen, Casing & Sealing Material

Pump and piping removed?	☐ Yes	☐ No	☒ N/A
Liner(s) removed?	☐ Yes	☐ No	☒ N/A
Screen removed?	☐ Yes	☐ No	☒ N/A
Casing left inplace?	☐ Yes	☐ No	☒ N/A
Was casing cut off below surface?	☐ Yes	☐ No	☒ N/A
Did sealing material rise to surface?	☒ Yes	☐ No	☐ N/A
Did material settle after 24 hours?	☐ Yes	☒ No	☐ N/A
If yes, was hole retopped?	☐ Yes	☐ No	☒ N/A
If bentonite chips were used, were they hydrated with water from a known safe source?	☒ Yes	☐ No	☐ N/A

Required Method of Placing Sealing Material
☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped
☒ Screened & Poured (Bentonite Chips) ☐ Other (Explain): _____

Sealing Materials
☐ Neat Cement Grout ☐ Clay-Sand Slurry (11 lb./gal. wt.)
☐ Sand-Cement (Concrete) Grout ☐ Bentonite-Sand Slurry " "
☐ Concrete ☐ Bentonite Chips

For Monitoring Wells and Monitoring Well Boreholes Only:
☐ Bentonite Chips ☐ Bentonite - Cement Grout
☒ Granular Bentonite ☐ Bentonite - Sand Slurry

5. Material Used to Fill Well / Drillhole

From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
Granular Bentonite	Surface	21	0.46 ft^3	

6. Comments

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing (mm/dd/yyyy)
ARCADIS		01/03/2014

Street or Route	Telephone Number
126 N. Jefferson Street, Suite 400	414-276-7742

City	State	ZIP Code	Signature of Person Doing Work	Date Signed
Milwaukee	WI	53202		01/03/2014

DNR Use Only

Date Received	Noted By
Comments	

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State of Wis., Dept. of Natural Resources
dnr.wi.gov

Well / Drillhole / Borehole Filling & Sealing

Form 3300-005 (R 4/08)

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☐ **Verification Only of Fill and Seal**

Route to:
☐ Drinking Water ☐ Watershed/Wastewater ☒ Remediation/Redevelopment
☐ Waste Management ☐ Other: _____

1. Well Location Information

County	WI Unique Well No. Removed Well	Hicap #
Dane	_ _ _ _ _ _	

Lattitude / Longitude (Degrees and Minutes) — Method Code (see instructions)
__ __ ° __ __ . __ __ __ ' N
__ __ ° __ __ . __ __ __ ' W

1/4 / 1/4 or Gov't Lot #	1/4	Section	Township	Range	
	SW	5	7 N	10	☒ E ☐ W

Well Street Address: 201 Waubesa Street

Well City, Village or Town	Well ZIP Code
Madison	53704

Subdivision Name	Lot #

Reason For Removal From Service	WI Unique Well # of Replacement Well
Soil Boring	_ _ _ _ _ _

2. Facility / Owner Information

Facility Name	Common Well Name
Madison Kipp	B-185

Facility ID (FID or PWS): 113125320
License/Permit/Monitoring #:
Original Well Owner:
Present Well Owner: Mark Meunier
Mailing Address of Present Owner: 201 Waubesa Street

City of Present Owner	State	ZIP Code
Madison	WI	53704

3. Well/Drillhole/Borehole Information

☐ Monitoring Well
☐ Water Well
☒ Borehole / Drillhole

Original Construction Date (mm/dd/yyyy): 01/03/2014
If a Well Construction Report is available, please attach.

Construction Type:
☒ Drilled ☐ Driven (Sandpoint) ☐ Dug
☐ Other (specify): _____

Formation Type:
☒ Unconsolidated Formation ☐ Bedrock

Total Well Depth From Groundsurface (ft.)	Casing Diameter (in.)
7	
Lower Drillhole Diameter (in.)	**Casing Depth (ft.)**
2	

Was well annular space grouted? ☐ Yes ☐ No ☐ Unknown

If yes, to what depth (feet)?	Depth to Water (feet)

4. Pump, Liner, Screen, Casing & Sealing Material

Pump and piping removed?	☐ Yes	☐ No	☒ N/A
Liner(s) removed?	☐ Yes	☐ No	☒ N/A
Screen removed?	☐ Yes	☐ No	☒ N/A
Casing left inplace?	☐ Yes	☐ No	☒ N/A
Was casing cut off below surface?	☐ Yes	☐ No	☒ N/A
Did sealing material rise to surface?	☒ Yes	☐ No	☐ N/A
Did material settle after 24 hours?	☐ Yes	☒ No	☐ N/A
If yes, was hole retopped?	☐ Yes	☐ No	☒ N/A
If bentonite chips were used, were they hydrated with water from a known safe source?	☒ Yes	☐ No	☐ N/A

Required Method of Placing Sealing Material
☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped
☒ Screened & Poured (Bentonite Chips) ☐ Other (Explain): _____

Sealing Materials
☐ Neat Cement Grout ☐ Clay-Sand Slurry (11 lb./gal. wt.)
☐ Sand-Cement (Concrete) Grout ☐ Bentonite-Sand Slurry " "
☐ Concrete ☐ Bentonite Chips

For Monitoring Wells and Monitoring Well Boreholes Only:
☐ Bentonite Chips ☐ Bentonite - Cement Grout
☒ Granular Bentonite ☐ Bentonite - Sand Slurry

5. Material Used to Fill Well / Drillhole	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
Granular Bentonite	Surface	7	0.15 ft^3	

6. Comments

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing (mm/dd/yyyy)
ARCADIS		01/03/2014

Street or Route	Telephone Number
126 N. Jefferson Street, Suite 400	414-276-7742

City	State	ZIP Code	Signature of Person Doing Work	Date Signed
Milwaukee	WI	53202		01/03/2014

DNR Use Only

Date Received	Noted By
Comments	

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State of Wis., Dept. of Natural Resources
dnr.wi.gov

Well / Drillhole / Borehole Filling & Sealing

Form 3300-005 (R 4/08)

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☐ **Verification Only of Fill and Seal**

Route to:
☐ Drinking Water ☐ Watershed/Wastewater ☒ Remediation/Redevelopment
☐ Waste Management ☐ Other: _____

1. Well Location Information

County	WI Unique Well No. Removed Well	Hicap #
Dane	_ _ _ _ _ _	

Lattitude / Longitude (Degrees and Minutes) | Method Code (see instructions)
__ __ ° __ __ . __ __ __ ' N
__ __ ° __ __ . __ __ __ ' W

1/4 / 1/4 or Gov't Lot #	1/4	Section	Township	Range	
	SW	5	7 N	10	☒ E ☐ W

Well Street Address: 201 Waubesa Street

Well City, Village or Town	Well ZIP Code
Madison	53704

Subdivision Name	Lot #

Reason For Removal From Service	WI Unique Well # of Replacement Well
Soil Boring	_ _ _ _ _ _

2. Facility / Owner Information

Facility Name	Common Well Name
Madison Kipp	B-186

Facility ID (FID or PWS): 113125320
License/Permit/Monitoring #:
Original Well Owner:
Present Well Owner: Mark Meunier
Mailing Address of Present Owner: 201 Waubesa Street

City of Present Owner	State	ZIP Code
Madison	WI	53704

3. Well/Drillhole/Borehole Information

☐ Monitoring Well
☐ Water Well
☒ Borehole / Drillhole

Original Construction Date (mm/dd/yyyy): 01/03/2014
If a Well Construction Report is available, please attach.

Construction Type:
☒ Drilled ☐ Driven (Sandpoint) ☐ Dug
☐ Other (specify): _____

Formation Type:
☒ Unconsolidated Formation ☐ Bedrock

Total Well Depth From Groundsurface (ft.)	Casing Diameter (in.)
3.5	
Lower Drillhole Diameter (in.)	**Casing Depth (ft.)**
2	

Was well annular space grouted? ☐ Yes ☐ No ☐ Unknown

If yes, to what depth (feet)?	Depth to Water (feet)

4. Pump, Liner, Screen, Casing & Sealing Material

Pump and piping removed?	☐ Yes	☐ No	☒ N/A
Liner(s) removed?	☐ Yes	☐ No	☒ N/A
Screen removed?	☐ Yes	☐ No	☒ N/A
Casing left inplace?	☐ Yes	☐ No	☒ N/A
Was casing cut off below surface?	☐ Yes	☐ No	☒ N/A
Did sealing material rise to surface?	☒ Yes	☐ No	☐ N/A
Did material settle after 24 hours?	☐ Yes	☒ No	☐ N/A
If yes, was hole retopped?	☐ Yes	☐ No	☒ N/A
If bentonite chips were used, were they hydrated with water from a known safe source?	☒ Yes	☐ No	☐ N/A

Required Method of Placing Sealing Material
☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped
☒ Screened & Poured (Bentonite Chips) ☐ Other (Explain): _____

Sealing Materials
☐ Neat Cement Grout ☐ Clay-Sand Slurry (11 lb./gal. wt.)
☐ Sand-Cement (Concrete) Grout ☐ Bentonite-Sand Slurry " "
☐ Concrete ☐ Bentonite Chips

For Monitoring Wells and Monitoring Well Boreholes Only:
☐ Bentonite Chips ☐ Bentonite - Cement Grout
☒ Granular Bentonite ☐ Bentonite - Sand Slurry

5. Material Used to Fill Well / Drillhole	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
Granular Bentonite	Surface	3.5	0.08 ft^3	

6. Comments

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing (mm/dd/yyyy)
ARCADIS		01/03/2014

Street or Route	Telephone Number
126 N. Jefferson Street, Suite 400	414-276-7742

City	State	ZIP Code	Signature of Person Doing Work	Date Signed
Milwaukee	WI	53202		01/03/2014

DNR Use Only

Date Received	Noted By
Comments	

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State of Wis., Dept. of Natural Resources
dnr.wi.gov

Well / Drillhole / Borehole Filling & Sealing

Form 3300-005 (R 4/08)

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☐ **Verification Only of Fill and Seal**

Route to:
☐ Drinking Water ☐ Watershed/Wastewater ☒ Remediation/Redevelopment
☐ Waste Management ☐ Other: _____

1. Well Location Information

County	WI Unique Well No. Removed Well	Hicap #
Dane	_ _ _ _ _ _	

Lattitude / Longitude (Degrees and Minutes) ___° ___ . ___ ___ ___ ' N / ___° ___ . ___ ___ ___ ' W

Method Code (see instructions)

1/4 / 1/4 or Gov't Lot #	1/4	Section	Township	Range	
	SW	5	7 N	10	☒ E ☐ W

Well Street Address: 201 Waubesa Street

Well City, Village or Town	Well ZIP Code
Madison	53704

Subdivision Name	Lot #

Reason For Removal From Service	WI Unique Well # of Replacement Well
Soil Boring	_ _ _ _ _ _

2. Facility / Owner Information

Facility Name	Common Well Name
Madison Kipp	B-187

Facility ID (FID or PWS): 113125320

License/Permit/Monitoring #:

Original Well Owner:

Present Well Owner: Mark Meunier

Mailing Address of Present Owner: 201 Waubesa Street

City of Present Owner	State	ZIP Code
Madison	WI	53704

3. Well/Drillhole/Borehole Information

☐ Monitoring Well
☐ Water Well
☒ Borehole / Drillhole

Original Construction Date (mm/dd/yyyy): 01/03/2014

If a Well Construction Report is available, please attach.

Construction Type:
☒ Drilled ☐ Driven (Sandpoint) ☐ Dug
☐ Other (specify): _____

Formation Type:
☒ Unconsolidated Formation ☐ Bedrock

Total Well Depth From Groundsurface (ft.)	Casing Diameter (in.)
14	
Lower Drillhole Diameter (in.)	**Casing Depth (ft.)**
2	

Was well annular space grouted? ☐ Yes ☐ No ☐ Unknown

If yes, to what depth (feet)?	Depth to Water (feet)

4. Pump, Liner, Screen, Casing & Sealing Material

Pump and piping removed?	☐ Yes	☐ No	☒ N/A
Liner(s) removed?	☐ Yes	☐ No	☒ N/A
Screen removed?	☐ Yes	☐ No	☒ N/A
Casing left inplace?	☐ Yes	☐ No	☒ N/A
Was casing cut off below surface?	☐ Yes	☐ No	☒ N/A
Did sealing material rise to surface?	☒ Yes	☐ No	☐ N/A
Did material settle after 24 hours?	☐ Yes	☒ No	☐ N/A
If yes, was hole retopped?	☐ Yes	☐ No	☒ N/A
If bentonite chips were used, were they hydrated with water from a known safe source?	☒ Yes	☐ No	☐ N/A

Required Method of Placing Sealing Material
☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped
☒ Screened & Poured (Bentonite Chips) ☐ Other (Explain): _____

Sealing Materials
☐ Neat Cement Grout ☐ Clay-Sand Slurry (11 lb./gal. wt.)
☐ Sand-Cement (Concrete) Grout ☐ Bentonite-Sand Slurry " "
☐ Concrete ☐ Bentonite Chips

For Monitoring Wells and Monitoring Well Boreholes Only:
☐ Bentonite Chips ☐ Bentonite - Cement Grout
☒ Granular Bentonite ☐ Bentonite - Sand Slurry

5. Material Used to Fill Well / Drillhole

From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
Granular Bentonite			
Surface	14	0.31 ft ^{3}	

6. Comments

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing (mm/dd/yyyy)
ARCADIS		01/03/2014

Street or Route	Telephone Number
126 N. Jefferson Street, Suite 400	414-276-7742

City	State	ZIP Code	Signature of Person Doing Work	Date Signed
Milwaukee	WI	53202		01/03/2014

DNR Use Only

Date Received	Noted By
Comments	

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State of Wis., Dept. of Natural Resources
dnr.wi.gov

Well / Drillhole / Borehole Filling & Sealing

Form 3300-005 (R 4/08)

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☐ **Verification Only of Fill and Seal**

Route to:
☐ Drinking Water ☐ Watershed/Wastewater ☒ Remediation/Redevelopment
☐ Waste Management ☐ Other: _____

1. Well Location Information

County	WI Unique Well No. Removed Well	Hicap #
Dane	_ _ _ _ _ _	

Lattitude / Longitude (Degrees and Minutes) — Method Code (see instructions)
__ __ ° __ __ . __ __ __ ' N
__ __ ° __ __ . __ __ __ ' W

1/4 / 1/4 or Gov't Lot #	1/4	Section	Township	Range	
	SW	5	7 N	10	☒ E ☐ W

Well Street Address: 201 Waubesa Street

Well City, Village or Town	Well ZIP Code
Madison	53704

Subdivision Name	Lot #

Reason For Removal From Service	WI Unique Well # of Replacement Well
Soil Boring	_ _ _ _ _ _

2. Facility / Owner Information

Facility Name	Common Well Name
Madison Kipp	B-188

Facility ID (FID or PWS): 113125320
License/Permit/Monitoring #:
Original Well Owner:
Present Well Owner: Mark Meunier
Mailing Address of Present Owner: 201 Waubesa Street

City of Present Owner	State	ZIP Code
Madison	WI	53704

3. Well/Drillhole/Borehole Information

☐ Monitoring Well
☐ Water Well
☒ Borehole / Drillhole

Original Construction Date (mm/dd/yyyy): 01/02/2014
If a Well Construction Report is available, please attach.

Construction Type:
☒ Drilled ☐ Driven (Sandpoint) ☐ Dug
☐ Other (specify): _____

Formation Type:
☒ Unconsolidated Formation ☐ Bedrock

Total Well Depth From Groundsurface (ft.)	Casing Diameter (in.)
16	
Lower Drillhole Diameter (in.)	**Casing Depth (ft.)**
2	

Was well annular space grouted? ☐ Yes ☐ No ☐ Unknown

If yes, to what depth (feet)?	Depth to Water (feet)

4. Pump, Liner, Screen, Casing & Sealing Material

Pump and piping removed?	☐ Yes	☐ No	☒ N/A
Liner(s) removed?	☐ Yes	☐ No	☒ N/A
Screen removed?	☐ Yes	☐ No	☒ N/A
Casing left inplace?	☐ Yes	☐ No	☒ N/A
Was casing cut off below surface?	☐ Yes	☐ No	☒ N/A
Did sealing material rise to surface?	☒ Yes	☐ No	☐ N/A
Did material settle after 24 hours?	☐ Yes	☒ No	☐ N/A
If yes, was hole retopped?	☐ Yes	☐ No	☒ N/A
If bentonite chips were used, were they hydrated with water from a known safe source?	☒ Yes	☐ No	☐ N/A

Required Method of Placing Sealing Material
☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped
☒ Screened & Poured (Bentonite Chips) ☐ Other (Explain): _____

Sealing Materials
☐ Neat Cement Grout ☐ Clay-Sand Slurry (11 lb./gal. wt.)
☐ Sand-Cement (Concrete) Grout ☐ Bentonite-Sand Slurry " "
☐ Concrete ☐ Bentonite Chips

For Monitoring Wells and Monitoring Well Boreholes Only:
☐ Bentonite Chips ☐ Bentonite - Cement Grout
☒ Granular Bentonite ☐ Bentonite - Sand Slurry

5. Material Used to Fill Well / Drillhole	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
Granular Bentonite	Surface	16	0.35 ft ^{3}	

6. Comments

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing (mm/dd/yyyy)
ARCADIS		01/02/2014

Street or Route	Telephone Number
126 N. Jefferson Street, Suite 400	414-276-7742

City	State	ZIP Code	Signature of Person Doing Work	Date Signed
Milwaukee	WI	53202		01/02/2014

DNR Use Only

Date Received	Noted By
Comments	

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State of Wis., Dept. of Natural Resources
dnr.wi.gov

Well / Drillhole / Borehole Filling & Sealing

Form 3300-005 (R 4/08)

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☐ **Verification Only of Fill and Seal**

Route to:
☐ Drinking Water ☐ Watershed/Wastewater ☒ Remediation/Redevelopment
☐ Waste Management ☐ Other: _____

1. Well Location Information

County	WI Unique Well No. Removed Well	Hicap #
Dane	_ _ _ _ _ _	

Lattitude / Longitude (Degrees and Minutes) — Method Code (see instructions)
__ __ ° __ __ . __ __ __ ' N
__ __ ° __ __ . __ __ __ ' W

1/4 / 1/4 or Gov't Lot #	1/4	Section	Township	Range	
	SW	5	7 N	10	☒ E ☐ W

Well Street Address: 201 Waubesa Street

Well City, Village or Town	Well ZIP Code
Madison	53704

Subdivision Name	Lot #

Reason For Removal From Service: Soil Boring
WI Unique Well # of Replacement Well: _ _ _ _ _ _

2. Facility / Owner Information

Facility Name	Common Well Name
Madison Kipp	B-189

Facility ID (FID or PWS): 113125320
License/Permit/Monitoring #:
Original Well Owner:
Present Well Owner: Mark Meunier
Mailing Address of Present Owner: 201 Waubesa Street

City of Present Owner	State	ZIP Code
Madison	WI	53704

3. Well/Drillhole/Borehole Information

☐ Monitoring Well
☐ Water Well
☒ Borehole / Drillhole

Original Construction Date (mm/dd/yyyy): 01/15/2014
If a Well Construction Report is available, please attach.

Construction Type:
☒ Drilled ☐ Driven (Sandpoint) ☐ Dug
☐ Other (specify): _____

Formation Type:
☒ Unconsolidated Formation ☐ Bedrock

Total Well Depth From Groundsurface (ft.)	Casing Diameter (in.)
21	
Lower Drillhole Diameter (in.)	**Casing Depth (ft.)**
2	

Was well annular space grouted? ☐ Yes ☐ No ☐ Unknown

If yes, to what depth (feet)?	Depth to Water (feet)

4. Pump, Liner, Screen, Casing & Sealing Material

Pump and piping removed?	☐ Yes	☐ No	☒ N/A
Liner(s) removed?	☐ Yes	☐ No	☒ N/A
Screen removed?	☐ Yes	☐ No	☒ N/A
Casing left inplace?	☐ Yes	☐ No	☒ N/A
Was casing cut off below surface?	☐ Yes	☐ No	☒ N/A
Did sealing material rise to surface?	☒ Yes	☐ No	☐ N/A
Did material settle after 24 hours?	☐ Yes	☒ No	☐ N/A
If yes, was hole retopped?	☐ Yes	☐ No	☒ N/A
If bentonite chips were used, were they hydrated with water from a known safe source?	☒ Yes	☐ No	☐ N/A

Required Method of Placing Sealing Material
☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped
☒ Screened & Poured (Bentonite Chips) ☐ Other (Explain): _____

Sealing Materials
☐ Neat Cement Grout ☐ Clay-Sand Slurry (11 lb./gal. wt.)
☐ Sand-Cement (Concrete) Grout ☐ Bentonite-Sand Slurry " "
☐ Concrete ☐ Bentonite Chips

For Monitoring Wells and Monitoring Well Boreholes Only:
☐ Bentonite Chips ☐ Bentonite - Cement Grout
☒ Granular Bentonite ☐ Bentonite - Sand Slurry

5. Material Used to Fill Well / Drillhole	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
Granular Bentonite	Surface	21	0.46 ft ^{3}	

6. Comments

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing (mm/dd/yyyy)
ARCADIS		01/15/2014

Street or Route	Telephone Number
126 N. Jefferson Street, Suite 400	414-276-7742

City	State	ZIP Code	Signature of Person Doing Work	Date Signed
Milwaukee	WI	53202	Bryan Ronald Fennell	01/15/2014

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Date Received | Noted By
Comments

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State of Wis., Dept. of Natural Resources
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Well / Drillhole / Borehole Filling & Sealing

Form 3300-005 (R 4/08)

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☐ **Verification Only of Fill and Seal**

Route to:
☐ Drinking Water ☐ Watershed/Wastewater ☒ Remediation/Redevelopment
☐ Waste Management ☐ Other: _____

1. Well Location Information

County	WI Unique Well No. Removed Well	Hicap #
Dane	_ _ _ _ _ _	

Lattitude / Longitude (Degrees and Minutes) | Method Code (see instructions)
__ __ ° __ __ . __ __ __ ' N
__ __ ° __ __ . __ __ __ ' W

1/4 / 1/4 or Gov't Lot #	1/4	Section	Township	Range	
	SW	5	7 N	10	☒ E ☐ W

Well Street Address: 201 Waubesa Street

Well City, Village or Town	Well ZIP Code
Madison	53704

Subdivision Name	Lot #

Reason For Removal From Service	WI Unique Well # of Replacement Well
Soil Boring	_ _ _ _ _ _

2. Facility / Owner Information

Facility Name	Common Well Name
Madison Kipp	B-190

Facility ID (FID or PWS): 113125320
License/Permit/Monitoring #:
Original Well Owner:
Present Well Owner: Mark Meunier
Mailing Address of Present Owner: 201 Waubesa Street

City of Present Owner	State	ZIP Code
Madison	WI	53704

3. Well/Drillhole/Borehole Information

☐ Monitoring Well
☐ Water Well
☒ Borehole / Drillhole

Original Construction Date (mm/dd/yyyy): 01/15/2014
If a Well Construction Report is available, please attach.

Construction Type:
☒ Drilled ☐ Driven (Sandpoint) ☐ Dug
☐ Other (specify): _____

Formation Type:
☒ Unconsolidated Formation ☐ Bedrock

Total Well Depth From Groundsurface (ft.)	Casing Diameter (in.)
21	
Lower Drillhole Diameter (in.)	**Casing Depth (ft.)**
2	

Was well annular space grouted? ☐ Yes ☐ No ☐ Unknown

If yes, to what depth (feet)?	Depth to Water (feet)

4. Pump, Liner, Screen, Casing & Sealing Material

Pump and piping removed?	☐ Yes	☐ No	☒ N/A
Liner(s) removed?	☐ Yes	☐ No	☒ N/A
Screen removed?	☐ Yes	☐ No	☒ N/A
Casing left inplace?	☐ Yes	☐ No	☒ N/A
Was casing cut off below surface?	☐ Yes	☐ No	☒ N/A
Did sealing material rise to surface?	☒ Yes	☐ No	☐ N/A
Did material settle after 24 hours?	☐ Yes	☒ No	☐ N/A
If yes, was hole retopped?	☐ Yes	☐ No	☒ N/A
If bentonite chips were used, were they hydrated with water from a known safe source?	☒ Yes	☐ No	☐ N/A

Required Method of Placing Sealing Material
☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped
☒ Screened & Poured (Bentonite Chips) ☐ Other (Explain): _____

Sealing Materials
☐ Neat Cement Grout ☐ Clay-Sand Slurry (11 lb./gal. wt.)
☐ Sand-Cement (Concrete) Grout ☐ Bentonite-Sand Slurry " "
☐ Concrete ☐ Bentonite Chips

For Monitoring Wells and Monitoring Well Boreholes Only:
☐ Bentonite Chips ☐ Bentonite - Cement Grout
☒ Granular Bentonite ☐ Bentonite - Sand Slurry

5. Material Used to Fill Well / Drillhole

5. Material Used to Fill Well / Drillhole	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
Granular Bentonite	Surface	21	0.46 ft ^{3}	

6. Comments

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing (mm/dd/yyyy)
ARCADIS		01/15/2014

Street or Route	Telephone Number
126 N. Jefferson Street, Suite 400	414-276-7742

City	State	ZIP Code	Signature of Person Doing Work	Date Signed
Milwaukee	WI	53202	Bryan Ronald Fennell	01/15/2014

DNR Use Only
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Comments

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State of Wis., Dept. of Natural Resources
dnr.wi.gov

Well / Drillhole / Borehole Filling & Sealing

Form 3300-005 (R 4/08)

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☐ **Verification Only of Fill and Seal**

Route to:
☐ Drinking Water ☐ Watershed/Wastewater ☒ Remediation/Redevelopment
☐ Waste Management ☐ Other: _____

1. Well Location Information

County	WI Unique Well No. Removed Well	Hicap #
Dane	_ _ _ _ _ _	

Lattitude / Longitude (Degrees and Minutes) — Method Code (see instructions)
__ __ ° __ __ . __ __ __ ' N
__ __ ° __ __ . __ __ __ ' W

1/4 / 1/4 or Gov't Lot #	1/4	Section	Township	Range	
	SW	5	7 N	10	☒ E ☐ W

Well Street Address: 201 Waubesa Street

Well City, Village or Town	Well ZIP Code
Madison	53704

Subdivision Name	Lot #

Reason For Removal From Service: Soil Boring
WI Unique Well # of Replacement Well: _ _ _ _ _ _

2. Facility / Owner Information

Facility Name	Common Well Name
Madison Kipp	B-191

Facility ID (FID or PWS): 113125320
License/Permit/Monitoring #:
Original Well Owner:
Present Well Owner: Mark Meunier
Mailing Address of Present Owner: 201 Waubesa Street

City of Present Owner	State	ZIP Code
Madison	WI	53704

3. Well/Drillhole/Borehole Information

☐ Monitoring Well
☐ Water Well
☒ Borehole / Drillhole

Original Construction Date (mm/dd/yyyy): 01/04/2014
If a Well Construction Report is available, please attach.

Construction Type:
☒ Drilled ☐ Driven (Sandpoint) ☐ Dug
☐ Other (specify): _____

Formation Type:
☒ Unconsolidated Formation ☐ Bedrock

Total Well Depth From Groundsurface (ft.)	Casing Diameter (in.)
21	
Lower Drillhole Diameter (in.)	**Casing Depth (ft.)**
2	

Was well annular space grouted? ☐ Yes ☐ No ☐ Unknown

If yes, to what depth (feet)?	Depth to Water (feet)

4. Pump, Liner, Screen, Casing & Sealing Material

Pump and piping removed?	☐ Yes	☐ No	☒ N/A
Liner(s) removed?	☐ Yes	☐ No	☒ N/A
Screen removed?	☐ Yes	☐ No	☒ N/A
Casing left inplace?	☐ Yes	☐ No	☒ N/A
Was casing cut off below surface?	☐ Yes	☐ No	☒ N/A
Did sealing material rise to surface?	☒ Yes	☐ No	☐ N/A
Did material settle after 24 hours?	☐ Yes	☒ No	☐ N/A
If yes, was hole retopped?	☐ Yes	☐ No	☒ N/A
If bentonite chips were used, were they hydrated with water from a known safe source?	☒ Yes	☐ No	☐ N/A

Required Method of Placing Sealing Material
☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped
☒ Screened & Poured (Bentonite Chips) ☐ Other (Explain): _____

Sealing Materials
☐ Neat Cement Grout ☐ Clay-Sand Slurry (11 lb./gal. wt.)
☐ Sand-Cement (Concrete) Grout ☐ Bentonite-Sand Slurry " "
☐ Concrete ☐ Bentonite Chips

For Monitoring Wells and Monitoring Well Boreholes Only:
☐ Bentonite Chips ☐ Bentonite - Cement Grout
☒ Granular Bentonite ☐ Bentonite - Sand Slurry

5. Material Used to Fill Well / Drillhole

5. Material Used to Fill Well / Drillhole	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
Granular Bentonite	Surface	21	0.46 ft ^{3}	

6. Comments

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing (mm/dd/yyyy)
ARCADIS		01/04/2014

Street or Route	Telephone Number
126 N. Jefferson Street, Suite 400	414-276-7742

City	State	ZIP Code	Signature of Person Doing Work	Date Signed
Milwaukee	WI	53202	Bryan Ronald Fennell	01/04/2014

DNR Use Only

Date Received	Noted By
Comments	

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State of Wis., Dept. of Natural Resources
dnr.wi.gov

Well / Drillhole / Borehole Filling & Sealing

Form 3300-005 (R 4/08)

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☐ **Verification Only of Fill and Seal**

Route to:
☐ Drinking Water ☐ Watershed/Wastewater ☒ Remediation/Redevelopment
☐ Waste Management ☐ Other: _____

1. Well Location Information

County	WI Unique Well No. Removed Well	Hicap #
Dane	_ _ _ _ _ _	

Lattitude / Longitude (Degrees and Minutes) — Method Code (see instructions)
__ __ ° __ __ . __ __ __ ' N
__ __ ° __ __ . __ __ __ ' W

1/4 / 1/4 or Gov't Lot #	1/4	Section	Township	Range	
	SW	5	7 N	10	☒ E ☐ W

Well Street Address: 201 Waubesa Street

Well City, Village or Town	Well ZIP Code
Madison	53704

Subdivision Name	Lot #

Reason For Removal From Service: Soil Boring
WI Unique Well # of Replacement Well: _ _ _ _ _ _

2. Facility / Owner Information

Facility Name	Common Well Name
Madison Kipp	B-192

Facility ID (FID or PWS): 113125320
License/Permit/Monitoring #:
Original Well Owner:
Present Well Owner: Mark Meunier
Mailing Address of Present Owner: 201 Waubesa Street

City of Present Owner	State	ZIP Code
Madison	WI	53704

3. Well/Drillhole/Borehole Information

☐ Monitoring Well
☐ Water Well
☒ Borehole / Drillhole

Original Construction Date (mm/dd/yyyy): 01/15/2014
If a Well Construction Report is available, please attach.

Construction Type:
☒ Drilled ☐ Driven (Sandpoint) ☐ Dug
☐ Other (specify): _____

Formation Type:
☒ Unconsolidated Formation ☐ Bedrock

Total Well Depth From Groundsurface (ft.)	Casing Diameter (in.)
21	
Lower Drillhole Diameter (in.)	**Casing Depth (ft.)**
2	

Was well annular space grouted? ☐ Yes ☐ No ☐ Unknown

If yes, to what depth (feet)?	Depth to Water (feet)

4. Pump, Liner, Screen, Casing & Sealing Material

Pump and piping removed?	☐ Yes	☐ No	☒ N/A
Liner(s) removed?	☐ Yes	☐ No	☒ N/A
Screen removed?	☐ Yes	☐ No	☒ N/A
Casing left inplace?	☐ Yes	☐ No	☒ N/A
Was casing cut off below surface?	☐ Yes	☐ No	☒ N/A
Did sealing material rise to surface?	☒ Yes	☐ No	☐ N/A
Did material settle after 24 hours?	☐ Yes	☒ No	☐ N/A
If yes, was hole retopped?	☐ Yes	☐ No	☒ N/A
If bentonite chips were used, were they hydrated with water from a known safe source?	☒ Yes	☐ No	☐ N/A

Required Method of Placing Sealing Material
☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped
☒ Screened & Poured (Bentonite Chips) ☐ Other (Explain): _____

Sealing Materials
☐ Neat Cement Grout ☐ Clay-Sand Slurry (11 lb./gal. wt.)
☐ Sand-Cement (Concrete) Grout ☐ Bentonite-Sand Slurry " "
☐ Concrete ☐ Bentonite Chips

For Monitoring Wells and Monitoring Well Boreholes Only:
☐ Bentonite Chips ☐ Bentonite - Cement Grout
☒ Granular Bentonite ☐ Bentonite - Sand Slurry

5. Material Used to Fill Well / Drillhole	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
Granular Bentonite	Surface	21	0.46 ft ^{3}	

6. Comments

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing (mm/dd/yyyy)
ARCADIS		01/15/2014

Street or Route	Telephone Number
126 N. Jefferson Street, Suite 400	414-276-7742

City	State	ZIP Code	Signature of Person Doing Work	Date Signed
Milwaukee	WI	53202	Bryan Ronald Fennell	01/15/2014

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Date Received | Noted By
Comments

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State of Wis., Dept. of Natural Resources
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Well / Drillhole / Borehole Filling & Sealing

Form 3300-005 (R 4/08)

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☐ **Verification Only of Fill and Seal**

Route to:
☐ Drinking Water ☐ Watershed/Wastewater ☒ Remediation/Redevelopment
☐ Waste Management ☐ Other: _____

1. Well Location Information

County	WI Unique Well No. Removed Well	Hicap #
Dane	_ _ _ _ _	

Lattitude / Longitude (Degrees and Minutes) ___° ___ . ___ ___ ___ ' N / ___° ___ . ___ ___ ___ ' W

Method Code (see instructions)

1/4 / 1/4 or Gov't Lot #	1/4	Section	Township	Range	
	SW	5	7 N	10	☒ E ☐ W

Well Street Address: 201 Waubesa Street

Well City, Village or Town	Well ZIP Code
Madison	53704

Subdivision Name	Lot #

Reason For Removal From Service	WI Unique Well # of Replacement Well
Soil Boring	_ _ _ _ _

2. Facility / Owner Information

Facility Name	Common Well Name
Madison Kipp	B-193

Facility ID (FID or PWS): 113125320

License/Permit/Monitoring #:

Original Well Owner:

Present Well Owner: Mark Meunier

Mailing Address of Present Owner: 201 Waubesa Street

City of Present Owner	State	ZIP Code
Madison	WI	53704

3. Well/Drillhole/Borehole Information

☐ Monitoring Well
☐ Water Well
☒ Borehole / Drillhole

Original Construction Date (mm/dd/yyyy): 02/27/2014

If a Well Construction Report is available, please attach.

Construction Type:
☒ Drilled ☐ Driven (Sandpoint) ☐ Dug
☐ Other (specify): _____

Formation Type:
☒ Unconsolidated Formation ☐ Bedrock

Total Well Depth From Groundsurface (ft.)	Casing Diameter (in.)
21	
Lower Drillhole Diameter (in.)	**Casing Depth (ft.)**
2	

Was well annular space grouted? ☐ Yes ☐ No ☐ Unknown

If yes, to what depth (feet)?	Depth to Water (feet)

4. Pump, Liner, Screen, Casing & Sealing Material

Pump and piping removed?	☐ Yes	☐ No	☒ N/A
Liner(s) removed?	☐ Yes	☐ No	☒ N/A
Screen removed?	☐ Yes	☐ No	☒ N/A
Casing left inplace?	☐ Yes	☐ No	☒ N/A
Was casing cut off below surface?	☐ Yes	☐ No	☒ N/A
Did sealing material rise to surface?	☒ Yes	☐ No	☐ N/A
Did material settle after 24 hours?	☐ Yes	☒ No	☐ N/A
If yes, was hole retopped?	☐ Yes	☐ No	☒ N/A
If bentonite chips were used, were they hydrated with water from a known safe source?	☒ Yes	☐ No	☐ N/A

Required Method of Placing Sealing Material
☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped
☒ Screened & Poured (Bentonite Chips) ☐ Other (Explain): _____

Sealing Materials
☐ Neat Cement Grout ☐ Clay-Sand Slurry (11 lb./gal. wt.)
☐ Sand-Cement (Concrete) Grout ☐ Bentonite-Sand Slurry " "
☐ Concrete ☐ Bentonite Chips

For Monitoring Wells and Monitoring Well Boreholes Only:
☐ Bentonite Chips ☐ Bentonite - Cement Grout
☒ Granular Bentonite ☐ Bentonite - Sand Slurry

5. Material Used to Fill Well / Drillhole

5. Material Used to Fill Well / Drillhole	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
Granular Bentonite	Surface	21	0.46 ft ^{3}	

6. Comments

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing (mm/dd/yyyy)
ARCADIS		02/27/2014

Street or Route	Telephone Number
126 N. Jefferson Street, Suite 400	414-276-7742

City	State	ZIP Code	Signature of Person Doing Work	Date Signed
Milwaukee	WI	53202	Bryan Ronald Fennell	02/27/2014

DNR Use Only

Date Received	Noted By
Comments	

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State of Wis., Dept. of Natural Resources
dnr.wi.gov

Well / Drillhole / Borehole Filling & Sealing

Form 3300-005 (R 4/08)

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☐ **Verification Only of Fill and Seal**

Route to:
☐ Drinking Water ☐ Watershed/Wastewater ☒ Remediation/Redevelopment
☐ Waste Management ☐ Other:

1. Well Location Information

County	WI Unique Well No. Removed Well	Hicap #
Dane		

Lattitude / Longitude (Degrees and Minutes) ___ ___ ° ___ ___ . ___ ___ ___ ' N / ___ ___ ° ___ ___ . ___ ___ ___ ' W

Method Code (see instructions)

1/4 / 1/4 or Gov't Lot #	1/4	Section	Township	Range	
	SW	5	7 N	10	☒ E ☐ W

Well Street Address: 201 Waubesa Street

Well City, Village or Town	Well ZIP Code
Madison	53704

Subdivision Name	Lot #

Reason For Removal From Service	WI Unique Well # of Replacement Well
Soil Boring	

2. Facility / Owner Information

Facility Name	Common Well Name
Madison Kipp	B-194

Facility ID (FID or PWS): 113125320

License/Permit/Monitoring #:

Original Well Owner:

Present Well Owner: Mark Meunier

Mailing Address of Present Owner: 201 Waubesa Street

City of Present Owner	State	ZIP Code
Madison	WI	53704

3. Well/Drillhole/Borehole Information

☐ Monitoring Well
☐ Water Well
☒ Borehole / Drillhole

Original Construction Date (mm/dd/yyyy): 02/27/2014

If a Well Construction Report is available, please attach.

Construction Type:
☒ Drilled ☐ Driven (Sandpoint) ☐ Dug
☐ Other (specify):

Formation Type:
☒ Unconsolidated Formation ☐ Bedrock

Total Well Depth From Groundsurface (ft.)	Casing Diameter (in.)
21	
Lower Drillhole Diameter (in.)	**Casing Depth (ft.)**
2	

Was well annular space grouted? ☐ Yes ☐ No ☐ Unknown

If yes, to what depth (feet)?	Depth to Water (feet)

4. Pump, Liner, Screen, Casing & Sealing Material

Pump and piping removed?	☐ Yes	☐ No	☒ N/A
Liner(s) removed?	☐ Yes	☐ No	☒ N/A
Screen removed?	☐ Yes	☐ No	☒ N/A
Casing left inplace?	☐ Yes	☐ No	☒ N/A
Was casing cut off below surface?	☐ Yes	☐ No	☒ N/A
Did sealing material rise to surface?	☒ Yes	☐ No	☐ N/A
Did material settle after 24 hours?	☐ Yes	☒ No	☐ N/A
If yes, was hole retopped?	☐ Yes	☐ No	☒ N/A
If bentonite chips were used, were they hydrated with water from a known safe source?	☒ Yes	☐ No	☐ N/A

Required Method of Placing Sealing Material
☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped
☒ Screened & Poured (Bentonite Chips) ☐ Other (Explain):

Sealing Materials
☐ Neat Cement Grout ☐ Clay-Sand Slurry (11 lb./gal. wt.)
☐ Sand-Cement (Concrete) Grout ☐ Bentonite-Sand Slurry " "
☐ Concrete ☐ Bentonite Chips

For Monitoring Wells and Monitoring Well Boreholes Only:
☐ Bentonite Chips ☐ Bentonite - Cement Grout
☒ Granular Bentonite ☐ Bentonite - Sand Slurry

5. Material Used to Fill Well / Drillhole

5. Material Used to Fill Well / Drillhole	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
Granular Bentonite	Surface	21	0.46 ft ^{3}	

6. Comments

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing (mm/dd/yyyy)
ARCADIS		02/27/2014

Street or Route	Telephone Number
126 N. Jefferson Street, Suite 400	414-276-7742

City	State	ZIP Code	Signature of Person Doing Work	Date Signed
Milwaukee	WI	53202	Bryan Ronald Fennell	02/27/2014

DNR Use Only

Date Received	Noted By
Comments	

State of Wis., Dept. of Natural Resources
dnr.wi.gov

Well / Drillhole / Borehole Filling & Sealing

Form 3300-005 (R 4/08)

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☐ **Verification Only of Fill and Seal**

Route to:
☐ Drinking Water ☐ Watershed/Wastewater ☒ Remediation/Redevelopment
☐ Waste Management ☐ Other: _____

1. Well Location Information

County	WI Unique Well No. Removed Well	Hicap #
Dane	_ _ _ _ _	

Lattitude / Longitude (Degrees and Minutes) — Method Code (see instructions)
__ __ ° __ __ . __ __ __ ' N
__ __ ° __ __ . __ __ __ ' W

1/4 / 1/4 or Gov't Lot #	1/4	Section	Township	Range	
	SW	5	7 N	10	☒ E ☐ W

Well Street Address: 201 Waubesa Street

Well City, Village or Town	Well ZIP Code
Madison	53704

Subdivision Name	Lot #

Reason For Removal From Service: Soil Boring
WI Unique Well # of Replacement Well: _ _ _ _ _

2. Facility / Owner Information

Facility Name	Common Well Name
Madison Kipp	B-195

Facility ID (FID or PWS): 113125320
License/Permit/Monitoring #:
Original Well Owner:
Present Well Owner: Mark Meunier
Mailing Address of Present Owner: 201 Waubesa Street

City of Present Owner	State	ZIP Code
Madison	WI	53704

3. Well/Drillhole/Borehole Information

☐ Monitoring Well
☐ Water Well
☒ Borehole / Drillhole

Original Construction Date (mm/dd/yyyy): 02/27/2014
If a Well Construction Report is available, please attach.

Construction Type:
☒ Drilled ☐ Driven (Sandpoint) ☐ Dug
☐ Other (specify): _____

Formation Type:
☒ Unconsolidated Formation ☐ Bedrock

Total Well Depth From Groundsurface (ft.)	Casing Diameter (in.)
21	
Lower Drillhole Diameter (in.)	**Casing Depth (ft.)**
2	

Was well annular space grouted? ☐ Yes ☐ No ☐ Unknown

If yes, to what depth (feet)?	Depth to Water (feet)

4. Pump, Liner, Screen, Casing & Sealing Material

Pump and piping removed?	☐ Yes	☐ No	☒ N/A
Liner(s) removed?	☐ Yes	☐ No	☒ N/A
Screen removed?	☐ Yes	☐ No	☒ N/A
Casing left inplace?	☐ Yes	☐ No	☒ N/A
Was casing cut off below surface?	☐ Yes	☐ No	☒ N/A
Did sealing material rise to surface?	☒ Yes	☐ No	☐ N/A
Did material settle after 24 hours?	☐ Yes	☒ No	☐ N/A
If yes, was hole retopped?	☐ Yes	☐ No	☒ N/A
If bentonite chips were used, were they hydrated with water from a known safe source?	☒ Yes	☐ No	☐ N/A

Required Method of Placing Sealing Material
☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped
☒ Screened & Poured (Bentonite Chips) ☐ Other (Explain): _____

Sealing Materials
☐ Neat Cement Grout ☐ Clay-Sand Slurry (11 lb./gal. wt.)
☐ Sand-Cement (Concrete) Grout ☐ Bentonite-Sand Slurry " "
☐ Concrete ☐ Bentonite Chips

For Monitoring Wells and Monitoring Well Boreholes Only:
☐ Bentonite Chips ☐ Bentonite - Cement Grout
☒ Granular Bentonite ☐ Bentonite - Sand Slurry

5. Material Used to Fill Well / Drillhole	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
Granular Bentonite	Surface	21	0.46 ft ^{3}	

6. Comments

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing (mm/dd/yyyy)
ARCADIS		02/27/2014

Street or Route	Telephone Number
126 N. Jefferson Street, Suite 400	414-276-7742

City	State	ZIP Code	Signature of Person Doing Work	Date Signed
Milwaukee	WI	53202	Bryan Ronald Fennell	02/27/2014

DNR Use Only
Date Received | Noted By
Comments

Madisonkipp/WI001283/graphics/logs/b195_aban.ai

Appendix C

Laboratory Reports

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Chicago
2417 Bond Street
University Park, IL 60484
Tel: (708)534-5200

TestAmerica Job ID: 500-69547-1
Client Project/Site: MadisonKipp

For:
ARCADIS U.S., Inc.
126 North Jefferson Street
Suite 400
Milwaukee, Wisconsin 53202

Attn: Ms. Toni Schoen

Authorized for release by:
1/13/2014 3:40:37 PM

Sandie Fredrick, Project Manager II
(920)261-1660
sandie.fredrick@testamericainc.com

Table of Contents

Job ID: 500-69547-1

Laboratory: TestAmerica Chicago

Narrative

Job Narrative
500-69547-1

Comments
No additional comments.

Receipt
The samples were received on 1/3/2014 10:30 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 2 coolers at receipt time were 3.4º C and 4.1º C.

GC/MS VOA
Method(s) 5035: Extract vial has < 8 grams of soil in 10 ml of methanol. B-148 (10-12) (500-69547-23), B-148 (17.5-19.5) (500-69547-24), B-149 (10-11.4) (500-69547-6), B-149 (8-10) (500-69547-5), B-150 (13-15) (500-69547-28), B-150 (18-20) (500-69547-29), B-158 (10-12) (500-69547-12), B-158 (8-9) (500-69547-11), B-175 (14-16) (500-69547-14), B-175 (18.5-20.5) (500-69547-15), B-175 (2-4) (500-69547-13), B-176 (12-14) (500-69547-17), B-176 (18.5-20.5) (500-69547-18), B-176 (2-4) (500-69547-16), B-178 (2-4) (500-69547-19), B-178 (6-7.5) (500-69547-20), B-178 (9-11) (500-69547-1), B-180 (0-2) (500-69547-25), B-180 (14.6-16.6) (500-69547-27), B-180 (4-6) (500-69547-26), B-181 (1.5-3.5) (500-69547-7), B-181 (4-6) (500-69547-8), B-181 (8.4-10.4) (500-69547-9), B-182 (1.2-3.2) (500-69547-10), B-182 (13.5-15.5) (500-69547-22), B-182 (5.1-7.1) (500-69547-21), B-188 (13-15) (500-69547-4), B-188 (2-4) (500-69547-2), B-188 (9-11) (500-69547-3).

Method(s) 8260B: The exctraction laboratory control samples (LCS) for batches 218769 and 218770 recovered outside control limits for the following analyte: dichlorodifluoromethane. The instrument LCS recovered within control limits; therefore, the data have been reported.

Method(s) 8260B: The matrix spike (MS) recoveries for batch 218825 were outside control limits for the following analyte: 1,2,3-trichloropropane. The associated laboratory control sample (LCS) and matrix spike duplicate (MSD) were within control limits; therefore, the data have been reported.

No other analytical or quality issues were noted.

GC Semi VOA
Method(s) 8082: The following sample were diluted to bring the concentration of target analytes within the calibration range: B-148 (10-12) (500-69547-23), B-148 (17.5-19.5) (500-69547-24), B-149 (10-11.4) (500-69547-6), B-149 (8-10) (500-69547-5), B-150 (13-15) (500-69547-28), B-158 (10-12) (500-69547-12), B-158 (8-9) (500-69547-11), B-180 (0-2) (500-69547-25), B-180 (14.6-16.6) (500-69547-27), B-181 (1.5-3.5) (500-69547-7), B-181 (4-6) (500-69547-8), B-181 (8.4-10.4) (500-69547-9), B-182 (1.2-3.2) (500-69547-10), B-182 (13.5-15.5) (500-69547-22), B-182 (5.1-7.1) (500-69547-21), B-188 (2-4) (500-69547-2). Elevated reporting limits (RLs) are provided.

Method(s) 8082: The following sample required a dilution due to the nature of the sample matrix: B-148 (10-12) (500-69547-23), B-149 (10-11.4) (500-69547-6), B-149 (8-10) (500-69547-5), B-150 (13-15) (500-69547-28), B-158 (10-12) (500-69547-12), B-158 (8-9) (500-69547-11), B-180 (0-2) (500-69547-25), B-180 (14.6-16.6) (500-69547-27), B-180 (4-6) (500-69547-26), B-181 (1.5-3.5) (500-69547-7), B-181 (4-6) (500-69547-8), B-181 (8.4-10.4) (500-69547-9), B-182 (1.2-3.2) (500-69547-10), B-182 (13.5-15.5) (500-69547-22), B-182 (5.1-7.1) (500-69547-21). Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

Method(s) 8082: Due to the high concentration of AR1242, the matrix spike / matrix spike duplicate (MS/MSD) for batch 218759 could not be evaluated for accuracy and precision. B-182 (5.1-7.1) (500-69547-21)

Method(s) 8082: The laboratory control sample (LCS) for batch 218759 recovered outside control limits for the following analytes: AR1260. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.B-148 (10-12) (500-69547-23), B-148 (17.5-19.5) (500-69547-24), B-150 (13-15) (500-69547-28), B-150 (18-20) (500-69547-29), B-180 (0-2) (500-69547-25), B-180 (14.6-16.6) (500-69547-27), B-180 (4-6) (500-69547-26), B-182 (13.5-15.5) (500-69547-22), B-182 (5.1-7.1) (500-69547-21)

No other analytical or quality issues were noted.

Job ID: 500-69547-1 (Continued)

Laboratory: TestAmerica Chicago (Continued)

Metals

No analytical or quality issues were noted.

Organic Prep

No analytical or quality issues were noted.

Detection Summary

Client: ARCADIS U.S., Inc.
Project/Site: MadisonKipp

TestAmerica Job ID: 500-69547-1

Client Sample ID: B-178 (9-11) — Lab Sample ID: 500-69547-1

No Detections.

Client Sample ID: B-188 (2-4) — Lab Sample ID: 500-69547-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	150		110	18	ug/Kg	50	☼	8260B	Total/NA
PCB-1242	1400		180	58	ug/Kg	10	☼	8082	Total/NA

Client Sample ID: B-188 (9-11) — Lab Sample ID: 500-69547-3

No Detections.

Client Sample ID: B-188 (13-15) — Lab Sample ID: 500-69547-4

No Detections.

Client Sample ID: B-149 (8-10) — Lab Sample ID: 500-69547-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2,4-Trimethylbenzene	310		180	19	ug/Kg	50	☼	8260B	Total/NA
1,3,5-Trimethylbenzene	96	J	180	18	ug/Kg	50	☼	8260B	Total/NA
n-Butylbenzene	69	J	89	12	ug/Kg	50	☼	8260B	Total/NA
Tetrachloroethene	77	J	89	15	ug/Kg	50	☼	8260B	Total/NA
Xylenes, Total	50		45	6.1	ug/Kg	50	☼	8260B	Total/NA
PCB-1242	800000		90000	30000	ug/Kg	5000	☼	8082	Total/NA

Client Sample ID: B-149 (10-11.4) — Lab Sample ID: 500-69547-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2,4-Trimethylbenzene	280		170	18	ug/Kg	50	☼	8260B	Total/NA
1,3,5-Trimethylbenzene	91	J	170	17	ug/Kg	50	☼	8260B	Total/NA
Naphthalene	110	J	170	42	ug/Kg	50	☼	8260B	Total/NA
n-Butylbenzene	66	J	84	11	ug/Kg	50	☼	8260B	Total/NA
Tetrachloroethene	300		84	14	ug/Kg	50	☼	8260B	Total/NA
Toluene	30		21	9.7	ug/Kg	50	☼	8260B	Total/NA
Xylenes, Total	72		42	5.8	ug/Kg	50	☼	8260B	Total/NA
PCB-1242	27000		3300	1100	ug/Kg	200	☼	8082	Total/NA

Client Sample ID: B-181 (1.5-3.5) — Lab Sample ID: 500-69547-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2,4-Trimethylbenzene	580		260	28	ug/Kg	50	☼	8260B	Total/NA
1,3,5-Trimethylbenzene	590		260	27	ug/Kg	50	☼	8260B	Total/NA
Isopropylbenzene	97	J	260	33	ug/Kg	50	☼	8260B	Total/NA
n-Butylbenzene	83	J	130	17	ug/Kg	50	☼	8260B	Total/NA
N-Propylbenzene	69	J	260	23	ug/Kg	50	☼	8260B	Total/NA
sec-Butylbenzene	66	J	130	20	ug/Kg	50	☼	8260B	Total/NA
Tetrachloroethene	240		130	22	ug/Kg	50	☼	8260B	Total/NA
Xylenes, Total	130		65	8.9	ug/Kg	50	☼	8260B	Total/NA
PCB-1242	160000		20000	6600	ug/Kg	1000	☼	8082	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: ARCADIS U.S., Inc.
Project/Site: MadisonKipp

TestAmerica Job ID: 500-69547-1

Client Sample ID: B-181 (4-6) — Lab Sample ID: 500-69547-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2,4-Trichlorobenzene	100	J	220	42	ug/Kg	50	☼	8260B	Total/NA
1,2,4-Trimethylbenzene	1000		220	23	ug/Kg	50	☼	8260B	Total/NA
1,3,5-Trimethylbenzene	960		220	23	ug/Kg	50	☼	8260B	Total/NA
cis-1,2-Dichloroethene	59	J	110	14	ug/Kg	50	☼	8260B	Total/NA
Isopropylbenzene	120	J	220	28	ug/Kg	50	☼	8260B	Total/NA
n-Butylbenzene	180		110	14	ug/Kg	50	☼	8260B	Total/NA
N-Propylbenzene	96	J	220	19	ug/Kg	50	☼	8260B	Total/NA
p-Isopropyltoluene	78	J	220	20	ug/Kg	50	☼	8260B	Total/NA
sec-Butylbenzene	110		110	17	ug/Kg	50	☼	8260B	Total/NA
Tetrachloroethene	660		110	18	ug/Kg	50	☼	8260B	Total/NA
Toluene	27	J	28	13	ug/Kg	50	☼	8260B	Total/NA
Xylenes, Total	150		55	7.5	ug/Kg	50	☼	8260B	Total/NA
PCB-1242	1600000		190000	63000	ug/Kg	10000	☼	8082	Total/NA

Client Sample ID: B-181 (8.4-10.4) — Lab Sample ID: 500-69547-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2,4-Trichlorobenzene	72	J	160	31	ug/Kg	50	☼	8260B	Total/NA
1,2,4-Trimethylbenzene	300		160	17	ug/Kg	50	☼	8260B	Total/NA
1,3,5-Trimethylbenzene	90	J	160	17	ug/Kg	50	☼	8260B	Total/NA
cis-1,2-Dichloroethene	76	J	81	10	ug/Kg	50	☼	8260B	Total/NA
Naphthalene	59	J	160	40	ug/Kg	50	☼	8260B	Total/NA
n-Butylbenzene	76	J	81	10	ug/Kg	50	☼	8260B	Total/NA
Tetrachloroethene	1100		81	14	ug/Kg	50	☼	8260B	Total/NA
Toluene	60		20	9.3	ug/Kg	50	☼	8260B	Total/NA
Xylenes, Total	53		41	5.5	ug/Kg	50	☼	8260B	Total/NA
PCB-1242	9100		1700	560	ug/Kg	100	☼	8082	Total/NA

Client Sample ID: B-182 (1.2-3.2) — Lab Sample ID: 500-69547-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2,4-Trichlorobenzene	78	J	200	37	ug/Kg	50	☼	8260B	Total/NA
1,2,4-Trimethylbenzene	210		200	21	ug/Kg	50	☼	8260B	Total/NA
1,3,5-Trimethylbenzene	66	J	200	20	ug/Kg	50	☼	8260B	Total/NA
Isopropylbenzene	110	J	200	24	ug/Kg	50	☼	8260B	Total/NA
Tetrachloroethene	56	J	98	16	ug/Kg	50	☼	8260B	Total/NA
Xylenes, Total	52		49	6.7	ug/Kg	50	☼	8260B	Total/NA
PCB-1242	1400		400	130	ug/Kg	20	☼	8082	Total/NA

Client Sample ID: B-158 (8-9) — Lab Sample ID: 500-69547-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2,4-Trichlorobenzene	83	J	180	34	ug/Kg	50	☼	8260B	Total/NA
1,2,4-Trimethylbenzene	190		180	19	ug/Kg	50	☼	8260B	Total/NA
1,3,5-Trimethylbenzene	55	J	180	19	ug/Kg	50	☼	8260B	Total/NA
Isopropylbenzene	280		180	23	ug/Kg	50	☼	8260B	Total/NA
Tetrachloroethene	55	J	91	15	ug/Kg	50	☼	8260B	Total/NA
PCB-1242	340000		34000	11000	ug/Kg	2000	☼	8082	Total/NA

Client Sample ID: B-158 (10-12) — Lab Sample ID: 500-69547-12

This Detection Summary does not include radiochemical test results.

Client Sample ID: B-158 (10-12) (Continued) — Lab Sample ID: 500-69547-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2,4-Trimethylbenzene	290		190	21	ug/Kg	50	☼	8260B	Total/NA
1,3,5-Trimethylbenzene	86	J	190	20	ug/Kg	50	☼	8260B	Total/NA
cis-1,2-Dichloroethene	71	J	97	12	ug/Kg	50	☼	8260B	Total/NA
Isopropylbenzene	260		190	24	ug/Kg	50	☼	8260B	Total/NA
n-Butylbenzene	71	J	97	13	ug/Kg	50	☼	8260B	Total/NA
Tetrachloroethene	960		97	16	ug/Kg	50	☼	8260B	Total/NA
Toluene	24		24	11	ug/Kg	50	☼	8260B	Total/NA
Xylenes, Total	84		49	6.7	ug/Kg	50	☼	8260B	Total/NA
PCB-1242	170000		8600	2800	ug/Kg	500	☼	8082	Total/NA

Client Sample ID: B-175 (2-4) — Lab Sample ID: 500-69547-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1242	51		20	6.7	ug/Kg	1	☼	8082	Total/NA

Client Sample ID: B-175 (14-16) — Lab Sample ID: 500-69547-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Toluene	26		22	9.9	ug/Kg	50	☼	8260B	Total/NA

Client Sample ID: B-175 (18.5-20.5) — Lab Sample ID: 500-69547-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1242	11	J	18	5.8	ug/Kg	1	☼	8082	Total/NA

Client Sample ID: B-176 (2-4) — Lab Sample ID: 500-69547-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Toluene	83		28	13	ug/Kg	50	☼	8260B	Total/NA
PCB-1242	17	J	20	6.5	ug/Kg	1	☼	8082	Total/NA

Client Sample ID: B-176 (12-14) — Lab Sample ID: 500-69547-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1242	11	J	17	5.5	ug/Kg	1	☼	8082	Total/NA

Client Sample ID: B-176 (18.5-20.5) — Lab Sample ID: 500-69547-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1242	11	J	17	5.6	ug/Kg	1	☼	8082	Total/NA

Client Sample ID: B-178 (2-4) — Lab Sample ID: 500-69547-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	78	J	100	17	ug/Kg	50	☼	8260B	Total/NA
PCB-1242	16	J	19	6.4	ug/Kg	1	☼	8082	Total/NA

Client Sample ID: B-178 (6-7.5) — Lab Sample ID: 500-69547-20

No Detections.

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: ARCADIS U.S., Inc.
Project/Site: MadisonKipp

TestAmerica Job ID: 500-69547-1

Client Sample ID: B-182 (5.1-7.1) — Lab Sample ID: 500-69547-21

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2,4-Trichlorobenzene	79	J	190	37	ug/Kg	50	☼	8260B	Total/NA
1,2,4-Trimethylbenzene	170	J	190	21	ug/Kg	50	☼	8260B	Total/NA
1,3,5-Trimethylbenzene	53	J	190	20	ug/Kg	50	☼	8260B	Total/NA
Isopropylbenzene	100	J	190	24	ug/Kg	50	☼	8260B	Total/NA
PCB-1242	280000		18000	5900	ug/Kg	1000	☼	8082	Total/NA

Client Sample ID: B-182 (13.5-15.5) — Lab Sample ID: 500-69547-22

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2,4-Trichlorobenzene	130	J	190	36	ug/Kg	50	☼	8260B	Total/NA
1,2,4-Trimethylbenzene	230		190	20	ug/Kg	50	☼	8260B	Total/NA
1,3,5-Trimethylbenzene	61	J	190	19	ug/Kg	50	☼	8260B	Total/NA
cis-1,2-Dichloroethene	390		94	12	ug/Kg	50	☼	8260B	Total/NA
Isopropylbenzene	64	J	190	24	ug/Kg	50	☼	8260B	Total/NA
Naphthalene	77	J	190	46	ug/Kg	50	☼	8260B	Total/NA
n-Butylbenzene	76	J	94	12	ug/Kg	50	☼	8260B	Total/NA
Tetrachloroethene	1900		94	16	ug/Kg	50	☼	8260B	Total/NA
Toluene	64		24	11	ug/Kg	50	☼	8260B	Total/NA
Trichloroethene	180		47	17	ug/Kg	50	☼	8260B	Total/NA
PCB-1242	2300000		170000	56000	ug/Kg	10000	☼	8082	Total/NA

Client Sample ID: B-148 (10-12) — Lab Sample ID: 500-69547-23

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2,4-Trichlorobenzene	160	J	170	33	ug/Kg	50	☼	8260B	Total/NA
1,2,4-Trimethylbenzene	200		170	18	ug/Kg	50	☼	8260B	Total/NA
1,3,5-Trimethylbenzene	53	J	170	18	ug/Kg	50	☼	8260B	Total/NA
Naphthalene	89	J	170	43	ug/Kg	50	☼	8260B	Total/NA
n-Butylbenzene	59	J	86	11	ug/Kg	50	☼	8260B	Total/NA
Tetrachloroethene	1400		86	14	ug/Kg	50	☼	8260B	Total/NA
PCB-1242	1600000		87000	29000	ug/Kg	5000	☼	8082	Total/NA

Client Sample ID: B-148 (17.5-19.5) — Lab Sample ID: 500-69547-24

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1242	1100		88	29	ug/Kg	5	☼	8082	Total/NA

Client Sample ID: B-180 (0-2) — Lab Sample ID: 500-69547-25

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2,4-Trimethylbenzene	170	J	240	25	ug/Kg	50	☼	8260B	Total/NA
1,3,5-Trimethylbenzene	69	J	240	25	ug/Kg	50	☼	8260B	Total/NA
Isopropylbenzene	96	J	240	30	ug/Kg	50	☼	8260B	Total/NA
PCB-1242	45000		4100	1300	ug/Kg	200	☼	8082	Total/NA

Client Sample ID: B-180 (4-6) — Lab Sample ID: 500-69547-26

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2,4-Trichlorobenzene	510		200	38	ug/Kg	50	☼	8260B	Total/NA
1,2,4-Trimethylbenzene	1600		200	21	ug/Kg	50	☼	8260B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: B-180 (4-6) (Continued) — Lab Sample ID: 500-69547-26

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,3,5-Trimethylbenzene	440		200	21	ug/Kg	50	☼	8260B	Total/NA
1,3-Dichlorobenzene	120	J	200	26	ug/Kg	50	☼	8260B	Total/NA
Ethylbenzene	48		25	13	ug/Kg	50	☼	8260B	Total/NA
Isopropylbenzene	780		200	25	ug/Kg	50	☼	8260B	Total/NA
Naphthalene	280		200	49	ug/Kg	50	☼	8260B	Total/NA
n-Butylbenzene	430		100	13	ug/Kg	50	☼	8260B	Total/NA
N-Propylbenzene	200		200	17	ug/Kg	50	☼	8260B	Total/NA
p-Isopropyltoluene	220		200	18	ug/Kg	50	☼	8260B	Total/NA
sec-Butylbenzene	170		100	15	ug/Kg	50	☼	8260B	Total/NA
Toluene	47		25	11	ug/Kg	50	☼	8260B	Total/NA
Xylenes, Total	290		50	6.8	ug/Kg	50	☼	8260B	Total/NA
PCB-1242	800000		95000	31000	ug/Kg	5000	☼	8082	Total/NA

Client Sample ID: B-180 (14.6-16.6) — Lab Sample ID: 500-69547-27

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2,4-Trichlorobenzene	260		210	40	ug/Kg	50	☼	8260B	Total/NA
1,2,4-Trimethylbenzene	720		210	23	ug/Kg	50	☼	8260B	Total/NA
1,3,5-Trimethylbenzene	180	J	210	22	ug/Kg	50	☼	8260B	Total/NA
Naphthalene	140	J	210	53	ug/Kg	50	☼	8260B	Total/NA
n-Butylbenzene	270		110	14	ug/Kg	50	☼	8260B	Total/NA
N-Propylbenzene	85	J	210	19	ug/Kg	50	☼	8260B	Total/NA
p-Isopropyltoluene	110	J	210	20	ug/Kg	50	☼	8260B	Total/NA
sec-Butylbenzene	93	J	110	16	ug/Kg	50	☼	8260B	Total/NA
Tetrachloroethene	1100		110	18	ug/Kg	50	☼	8260B	Total/NA
Xylenes, Total	85		54	7.3	ug/Kg	50	☼	8260B	Total/NA
PCB-1242	1200000		91000	30000	ug/Kg	5000	☼	8082	Total/NA

Client Sample ID: B-150 (13-15) — Lab Sample ID: 500-69547-28

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2,4-Trimethylbenzene	79	J	170	18	ug/Kg	50	☼	8260B	Total/NA
cis-1,2-Dichloroethene	180		86	11	ug/Kg	50	☼	8260B	Total/NA
Tetrachloroethene	1900		86	14	ug/Kg	50	☼	8260B	Total/NA
Trichloroethene	68		43	16	ug/Kg	50	☼	8260B	Total/NA
PCB-1242	12000		1700	570	ug/Kg	100	☼	8082	Total/NA

Client Sample ID: B-150 (18-20) — Lab Sample ID: 500-69547-29

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2,4-Trimethylbenzene	100	J	170	17	ug/Kg	50	☼	8260B	Total/NA
cis-1,2-Dichloroethene	360		83	10	ug/Kg	50	☼	8260B	Total/NA
Naphthalene	95	J	170	41	ug/Kg	50	☼	8260B	Total/NA
Tetrachloroethene	3100		83	14	ug/Kg	50	☼	8260B	Total/NA
Trichloroethene	140		41	15	ug/Kg	50	☼	8260B	Total/NA
PCB-1242	320		17	5.7	ug/Kg	1	☼	8082	Total/NA

Client Sample ID: Trip Blank — Lab Sample ID: 500-69547-30

No Detections.

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: ARCADIS U.S., Inc.
Project/Site: MadisonKipp

TestAmerica Job ID: 500-69547-1

Client Sample ID: Trip Blank **Lab Sample ID: 500-69547-31**

No Detections.

This Detection Summary does not include radiochemical test results.

Method Summary

Client: ARCADIS U.S., Inc.
Project/Site: MadisonKipp

TestAmerica Job ID: 500-69547-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL CHI
8082	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL CHI
Moisture	Percent Moisture	EPA	TAL CHI

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL CHI = TestAmerica Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Sample Summary

Client: ARCADIS U.S., Inc.
Project/Site: MadisonKipp

TestAmerica Job ID: 500-69547-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-69547-1	B-178 (9-11)	Solid	01/02/14 09:00	01/03/14 10:30
500-69547-2	B-188 (2-4)	Solid	01/02/14 09:45	01/03/14 10:30
500-69547-3	B-188 (9-11)	Solid	01/02/14 09:50	01/03/14 10:30
500-69547-4	B-188 (13-15)	Solid	01/02/14 09:55	01/03/14 10:30
500-69547-5	B-149 (8-10)	Solid	01/02/14 10:45	01/03/14 10:30
500-69547-6	B-149 (10-11.4)	Solid	01/02/14 10:55	01/03/14 10:30
500-69547-7	B-181 (1.5-3.5)	Solid	01/02/14 11:10	01/03/14 10:30
500-69547-8	B-181 (4-6)	Solid	01/02/14 11:15	01/03/14 10:30
500-69547-9	B-181 (8.4-10.4)	Solid	01/02/14 11:20	01/03/14 10:30
500-69547-10	B-182 (1.2-3.2)	Solid	01/02/14 11:55	01/03/14 10:30
500-69547-11	B-158 (8-9)	Solid	12/30/13 11:00	01/03/14 10:30
500-69547-12	B-158 (10-12)	Solid	12/30/13 11:30	01/03/14 10:30
500-69547-13	B-175 (2-4)	Solid	12/30/13 14:00	01/03/14 10:30
500-69547-14	B-175 (14-16)	Solid	12/30/13 14:15	01/03/14 10:30
500-69547-15	B-175 (18.5-20.5)	Solid	12/30/13 14:40	01/03/14 10:30
500-69547-16	B-176 (2-4)	Solid	12/30/13 15:00	01/03/14 10:30
500-69547-17	B-176 (12-14)	Solid	12/30/13 15:15	01/03/14 10:30
500-69547-18	B-176 (18.5-20.5)	Solid	12/30/13 15:30	01/03/14 10:30
500-69547-19	B-178 (2-4)	Solid	01/02/14 08:30	01/03/14 10:30
500-69547-20	B-178 (6-7.5)	Solid	01/02/14 08:45	01/03/14 10:30
500-69547-21	B-182 (5.1-7.1)	Solid	01/02/14 12:20	01/03/14 10:30
500-69547-22	B-182 (13.5-15.5)	Solid	01/02/14 12:30	01/03/14 10:30
500-69547-23	B-148 (10-12)	Solid	01/02/14 14:00	01/03/14 10:30
500-69547-24	B-148 (17.5-19.5)	Solid	01/02/14 14:10	01/03/14 10:30
500-69547-25	B-180 (0-2)	Solid	01/02/14 14:40	01/03/14 10:30
500-69547-26	B-180 (4-6)	Solid	01/02/14 14:50	01/03/14 10:30
500-69547-27	B-180 (14.6-16.6)	Solid	01/02/14 14:55	01/03/14 10:30
500-69547-28	B-150 (13-15)	Solid	01/02/14 15:50	01/03/14 10:30
500-69547-29	B-150 (18-20)	Solid	01/02/14 15:55	01/03/14 10:30
500-69547-30	Trip Blank	Solid	12/30/13 00:00	01/03/14 10:30
500-69547-31	Trip Blank	Solid	01/02/14 00:00	01/03/14 10:30

Client: ARCADIS U.S., Inc.
Project/Site: MadisonKipp

TestAmerica Job ID: 500-69547-1

Client Sample ID: B-178 (9-11)
Date Collected: 01/02/14 09:00
Date Received: 01/03/14 10:30

Lab Sample ID: 500-69547-1
Matrix: Solid
Percent Solids: 96.6

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<31		180	31	ug/Kg	☼	01/02/14 09:00	01/07/14 12:21	50
1,1,1-Trichloroethane	<18		89	18	ug/Kg	☼	01/02/14 09:00	01/07/14 12:21	50
1,1,2,2-Tetrachloroethane	<21		89	21	ug/Kg	☼	01/02/14 09:00	01/07/14 12:21	50
1,1,2-Trichloroethane	<25		89	25	ug/Kg	☼	01/02/14 09:00	01/07/14 12:21	50
1,1-Dichloroethane	<17		89	17	ug/Kg	☼	01/02/14 09:00	01/07/14 12:21	50
1,1-Dichloroethene	<27		89	27	ug/Kg	☼	01/02/14 09:00	01/07/14 12:21	50
1,1-Dichloropropene	<31		89	31	ug/Kg	☼	01/02/14 09:00	01/07/14 12:21	50
1,2,3-Trichlorobenzene	<31		180	31	ug/Kg	☼	01/02/14 09:00	01/07/14 12:21	50
1,2,3-Trichloropropane	<51		180	51	ug/Kg	☼	01/02/14 09:00	01/07/14 12:21	50
1,2,4-Trichlorobenzene	<34		180	34	ug/Kg	☼	01/02/14 09:00	01/07/14 12:21	50
1,2,4-Trimethylbenzene	<19		180	19	ug/Kg	☼	01/02/14 09:00	01/07/14 12:21	50
1,2-Dibromo-3-Chloropropane	<78		180	78	ug/Kg	☼	01/02/14 09:00	01/07/14 12:21	50
1,2-Dibromoethane	<28		180	28	ug/Kg	☼	01/02/14 09:00	01/07/14 12:21	50
1,2-Dichlorobenzene	<18		180	18	ug/Kg	☼	01/02/14 09:00	01/07/14 12:21	50
1,2-Dichloroethane	<25		89	25	ug/Kg	☼	01/02/14 09:00	01/07/14 12:21	50
1,2-Dichloropropane	<18		89	18	ug/Kg	☼	01/02/14 09:00	01/07/14 12:21	50
1,3,5-Trimethylbenzene	<18		180	18	ug/Kg	☼	01/02/14 09:00	01/07/14 12:21	50
1,3-Dichlorobenzene	<23		180	23	ug/Kg	☼	01/02/14 09:00	01/07/14 12:21	50
1,3-Dichloropropane	<12		89	12	ug/Kg	☼	01/02/14 09:00	01/07/14 12:21	50
1,4-Dichlorobenzene	<16		180	16	ug/Kg	☼	01/02/14 09:00	01/07/14 12:21	50
2,2-Dichloropropane	<28		89	28	ug/Kg	☼	01/02/14 09:00	01/07/14 12:21	50
2-Chlorotoluene	<18		89	18	ug/Kg	☼	01/02/14 09:00	01/07/14 12:21	50
4-Chlorotoluene	<18		89	18	ug/Kg	☼	01/02/14 09:00	01/07/14 12:21	50
Benzene	<6.6		22	6.6	ug/Kg	☼	01/02/14 09:00	01/07/14 12:21	50
Bromobenzene	<38		180	38	ug/Kg	☼	01/02/14 09:00	01/07/14 12:21	50
Bromochloromethane	<34		180	34	ug/Kg	☼	01/02/14 09:00	01/07/14 12:21	50
Bromodichloromethane	<30		180	30	ug/Kg	☼	01/02/14 09:00	01/07/14 12:21	50
Bromoform	<39		180	39	ug/Kg	☼	01/02/14 09:00	01/07/14 12:21	50
Bromomethane	<61		180	61	ug/Kg	☼	01/02/14 09:00	01/07/14 12:21	50
Carbon tetrachloride	<23		89	23	ug/Kg	☼	01/02/14 09:00	01/07/14 12:21	50
Chlorobenzene	<13		89	13	ug/Kg	☼	01/02/14 09:00	01/07/14 12:21	50
Chloroethane	<39		180	39	ug/Kg	☼	01/02/14 09:00	01/07/14 12:21	50
Chloroform	<18		89	18	ug/Kg	☼	01/02/14 09:00	01/07/14 12:21	50
Chloromethane	<41		180	41	ug/Kg	☼	01/02/14 09:00	01/07/14 12:21	50
cis-1,2-Dichloroethene	<11		89	11	ug/Kg	☼	01/02/14 09:00	01/07/14 12:21	50
cis-1,3-Dichloropropene	<16		89	16	ug/Kg	☼	01/02/14 09:00	01/07/14 12:21	50
Dibromochloromethane	<31		180	31	ug/Kg	☼	01/02/14 09:00	01/07/14 12:21	50
Dibromomethane	<43		180	43	ug/Kg	☼	01/02/14 09:00	01/07/14 12:21	50
Dichlorodifluoromethane	<46	*	180	46	ug/Kg	☼	01/02/14 09:00	01/07/14 12:21	50
Ethylbenzene	<11		22	11	ug/Kg	☼	01/02/14 09:00	01/07/14 12:21	50
Hexachlorobutadiene	<31		180	31	ug/Kg	☼	01/02/14 09:00	01/07/14 12:21	50
Isopropyl ether	<13		180	13	ug/Kg	☼	01/02/14 09:00	01/07/14 12:21	50
Isopropylbenzene	<22		180	22	ug/Kg	☼	01/02/14 09:00	01/07/14 12:21	50
Methyl tert-butyl ether	<38		180	38	ug/Kg	☼	01/02/14 09:00	01/07/14 12:21	50
Methylene Chloride	<61		450	61	ug/Kg	☼	01/02/14 09:00	01/07/14 12:21	50
Naphthalene	<44		180	44	ug/Kg	☼	01/02/14 09:00	01/07/14 12:21	50
n-Butylbenzene	<12		89	12	ug/Kg	☼	01/02/14 09:00	01/07/14 12:21	50
N-Propylbenzene	<16		180	16	ug/Kg	☼	01/02/14 09:00	01/07/14 12:21	50
p-Isopropyltoluene	<17		180	17	ug/Kg	☼	01/02/14 09:00	01/07/14 12:21	50

Client: ARCADIS U.S., Inc.
Project/Site: MadisonKipp

TestAmerica Job ID: 500-69547-1

Client Sample ID: B-178 (9-11)

Lab Sample ID: 500-69547-1
Date Collected: 01/02/14 09:00
Matrix: Solid
Date Received: 01/03/14 10:30
Percent Solids: 96.6

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	<14		89	14	ug/Kg	☼	01/02/14 09:00	01/07/14 12:21	50
Styrene	<8.8		89	8.8	ug/Kg	☼	01/02/14 09:00	01/07/14 12:21	50
tert-Butylbenzene	<12		89	12	ug/Kg	☼	01/02/14 09:00	01/07/14 12:21	50
Tetrachloroethene	<15		89	15	ug/Kg	☼	01/02/14 09:00	01/07/14 12:21	50
Toluene	<10		22	10	ug/Kg	☼	01/02/14 09:00	01/07/14 12:21	50
trans-1,2-Dichloroethene	<22		89	22	ug/Kg	☼	01/02/14 09:00	01/07/14 12:21	50
trans-1,3-Dichloropropene	<19		89	19	ug/Kg	☼	01/02/14 09:00	01/07/14 12:21	50
Trichloroethene	<17		45	17	ug/Kg	☼	01/02/14 09:00	01/07/14 12:21	50
Trichlorofluoromethane	<37		180	37	ug/Kg	☼	01/02/14 09:00	01/07/14 12:21	50
Vinyl chloride	<9.3		22	9.3	ug/Kg	☼	01/02/14 09:00	01/07/14 12:21	50
Xylenes, Total	<6.1		45	6.1	ug/Kg	☼	01/02/14 09:00	01/07/14 12:21	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*75 - 125*	*01/02/14 09:00*	*01/07/14 12:21*	*50*
4-Bromofluorobenzene (Surr)	*94*		*75 - 120*	*01/02/14 09:00*	*01/07/14 12:21*	*50*
Dibromofluoromethane	*100*		*75 - 120*	*01/02/14 09:00*	*01/07/14 12:21*	*50*
Toluene-d8 (Surr)	*107*		*75 - 120*	*01/02/14 09:00*	*01/07/14 12:21*	*50*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<5.9		17	5.9	ug/Kg	☼	01/07/14 09:29	01/08/14 10:00	1
PCB-1221	<7.4		17	7.4	ug/Kg	☼	01/07/14 09:29	01/08/14 10:00	1
PCB-1232	<7.3		17	7.3	ug/Kg	☼	01/07/14 09:29	01/08/14 10:00	1
PCB-1242	<5.5		17	5.5	ug/Kg	☼	01/07/14 09:29	01/08/14 10:00	1
PCB-1248	<6.6		17	6.6	ug/Kg	☼	01/07/14 09:29	01/08/14 10:00	1
PCB-1254	<3.6		17	3.6	ug/Kg	☼	01/07/14 09:29	01/08/14 10:00	1
PCB-1260	<8.2		17	8.2	ug/Kg	☼	01/07/14 09:29	01/08/14 10:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*77*		*50 - 116*	*01/07/14 09:29*	*01/08/14 10:00*	*1*
DCB Decachlorobiphenyl	*89*		*48 - 142*	*01/07/14 09:29*	*01/08/14 10:00*	*1*

Client Sample ID: B-188 (2-4)

Lab Sample ID: 500-69547-2
Date Collected: 01/02/14 09:45
Matrix: Solid
Date Received: 01/03/14 10:30
Percent Solids: 90.2

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<38		220	38	ug/Kg	☼	01/02/14 09:45	01/07/14 12:46	50
1,1,1-Trichloroethane	<22		110	22	ug/Kg	☼	01/02/14 09:45	01/07/14 12:46	50
1,1,2,2-Tetrachloroethane	<26		110	26	ug/Kg	☼	01/02/14 09:45	01/07/14 12:46	50
1,1,2-Trichloroethane	<31		110	31	ug/Kg	☼	01/02/14 09:45	01/07/14 12:46	50
1,1-Dichloroethane	<20		110	20	ug/Kg	☼	01/02/14 09:45	01/07/14 12:46	50
1,1-Dichloroethene	<34		110	34	ug/Kg	☼	01/02/14 09:45	01/07/14 12:46	50
1,1-Dichloropropene	<38		110	38	ug/Kg	☼	01/02/14 09:45	01/07/14 12:46	50
1,2,3-Trichlorobenzene	<39		220	39	ug/Kg	☼	01/02/14 09:45	01/07/14 12:46	50
1,2,3-Trichloropropane	<64		220	64	ug/Kg	☼	01/02/14 09:45	01/07/14 12:46	50
1,2,4-Trichlorobenzene	<42		220	42	ug/Kg	☼	01/02/14 09:45	01/07/14 12:46	50
1,2,4-Trimethylbenzene	<23		220	23	ug/Kg	☼	01/02/14 09:45	01/07/14 12:46	50
1,2-Dibromo-3-Chloropropane	<96		220	96	ug/Kg	☼	01/02/14 09:45	01/07/14 12:46	50

Client: ARCADIS U.S., Inc.
Project/Site: MadisonKipp

TestAmerica Job ID: 500-69547-1

Client Sample ID: B-188 (2-4)
Date Collected: 01/02/14 09:45
Date Received: 01/03/14 10:30

Lab Sample ID: 500-69547-2
Matrix: Solid
Percent Solids: 90.2

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane	<35		220	35	ug/Kg	☼	01/02/14 09:45	01/07/14 12:46	50
1,2-Dichlorobenzene	<23		220	23	ug/Kg	☼	01/02/14 09:45	01/07/14 12:46	50
1,2-Dichloroethane	<32		110	32	ug/Kg	☼	01/02/14 09:45	01/07/14 12:46	50
1,2-Dichloropropane	<22		110	22	ug/Kg	☼	01/02/14 09:45	01/07/14 12:46	50
1,3,5-Trimethylbenzene	<23		220	23	ug/Kg	☼	01/02/14 09:45	01/07/14 12:46	50
1,3-Dichlorobenzene	<28		220	28	ug/Kg	☼	01/02/14 09:45	01/07/14 12:46	50
1,3-Dichloropropane	<15		110	15	ug/Kg	☼	01/02/14 09:45	01/07/14 12:46	50
1,4-Dichlorobenzene	<19		220	19	ug/Kg	☼	01/02/14 09:45	01/07/14 12:46	50
2,2-Dichloropropane	<35		110	35	ug/Kg	☼	01/02/14 09:45	01/07/14 12:46	50
2-Chlorotoluene	<23		110	23	ug/Kg	☼	01/02/14 09:45	01/07/14 12:46	50
4-Chlorotoluene	<22		110	22	ug/Kg	☼	01/02/14 09:45	01/07/14 12:46	50
Benzene	<8.2		28	8.2	ug/Kg	☼	01/02/14 09:45	01/07/14 12:46	50
Bromobenzene	<47		220	47	ug/Kg	☼	01/02/14 09:45	01/07/14 12:46	50
Bromochloromethane	<42		220	42	ug/Kg	☼	01/02/14 09:45	01/07/14 12:46	50
Bromodichloromethane	<37		220	37	ug/Kg	☼	01/02/14 09:45	01/07/14 12:46	50
Bromoform	<49		220	49	ug/Kg	☼	01/02/14 09:45	01/07/14 12:46	50
Bromomethane	<75		220	75	ug/Kg	☼	01/02/14 09:45	01/07/14 12:46	50
Carbon tetrachloride	<28		110	28	ug/Kg	☼	01/02/14 09:45	01/07/14 12:46	50
Chlorobenzene	<16		110	16	ug/Kg	☼	01/02/14 09:45	01/07/14 12:46	50
Chloroethane	<48		220	48	ug/Kg	☼	01/02/14 09:45	01/07/14 12:46	50
Chloroform	<23		110	23	ug/Kg	☼	01/02/14 09:45	01/07/14 12:46	50
Chloromethane	<51		220	51	ug/Kg	☼	01/02/14 09:45	01/07/14 12:46	50
cis-1,2-Dichloroethene	<14		110	14	ug/Kg	☼	01/02/14 09:45	01/07/14 12:46	50
cis-1,3-Dichloropropene	<20		110	20	ug/Kg	☼	01/02/14 09:45	01/07/14 12:46	50
Dibromochloromethane	<38		220	38	ug/Kg	☼	01/02/14 09:45	01/07/14 12:46	50
Dibromomethane	<53		220	53	ug/Kg	☼	01/02/14 09:45	01/07/14 12:46	50
Dichlorodifluoromethane	<57	*	220	57	ug/Kg	☼	01/02/14 09:45	01/07/14 12:46	50
Ethylbenzene	<14		28	14	ug/Kg	☼	01/02/14 09:45	01/07/14 12:46	50
Hexachlorobutadiene	<38		220	38	ug/Kg	☼	01/02/14 09:45	01/07/14 12:46	50
Isopropyl ether	<16		220	16	ug/Kg	☼	01/02/14 09:45	01/07/14 12:46	50
Isopropylbenzene	<28		220	28	ug/Kg	☼	01/02/14 09:45	01/07/14 12:46	50
Methyl tert-butyl ether	<48		220	48	ug/Kg	☼	01/02/14 09:45	01/07/14 12:46	50
Methylene Chloride	<76		550	76	ug/Kg	☼	01/02/14 09:45	01/07/14 12:46	50
Naphthalene	<55		220	55	ug/Kg	☼	01/02/14 09:45	01/07/14 12:46	50
n-Butylbenzene	<14		110	14	ug/Kg	☼	01/02/14 09:45	01/07/14 12:46	50
N-Propylbenzene	<19		220	19	ug/Kg	☼	01/02/14 09:45	01/07/14 12:46	50
p-Isopropyltoluene	<20		220	20	ug/Kg	☼	01/02/14 09:45	01/07/14 12:46	50
sec-Butylbenzene	<17		110	17	ug/Kg	☼	01/02/14 09:45	01/07/14 12:46	50
Styrene	<11		110	11	ug/Kg	☼	01/02/14 09:45	01/07/14 12:46	50
tert-Butylbenzene	<15		110	15	ug/Kg	☼	01/02/14 09:45	01/07/14 12:46	50
Tetrachloroethene	**150**		110	18	ug/Kg	☼	01/02/14 09:45	01/07/14 12:46	50
Toluene	<13		28	13	ug/Kg	☼	01/02/14 09:45	01/07/14 12:46	50
trans-1,2-Dichloroethene	<28		110	28	ug/Kg	☼	01/02/14 09:45	01/07/14 12:46	50
trans-1,3-Dichloropropene	<23		110	23	ug/Kg	☼	01/02/14 09:45	01/07/14 12:46	50
Trichloroethene	<21		55	21	ug/Kg	☼	01/02/14 09:45	01/07/14 12:46	50
Trichlorofluoromethane	<46		220	46	ug/Kg	☼	01/02/14 09:45	01/07/14 12:46	50
Vinyl chloride	<12		28	12	ug/Kg	☼	01/02/14 09:45	01/07/14 12:46	50
Xylenes, Total	<7.6		55	7.6	ug/Kg	☼	01/02/14 09:45	01/07/14 12:46	50

Client Sample ID: B-188 (2-4)

Lab Sample ID: 500-69547-2

Date Collected: 01/02/14 09:45
Matrix: Solid
Date Received: 01/03/14 10:30
Percent Solids: 90.2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*75 - 125*	*01/02/14 09:45*	*01/07/14 12:46*	*50*
4-Bromofluorobenzene (Surr)	*94*		*75 - 120*	*01/02/14 09:45*	*01/07/14 12:46*	*50*
Dibromofluoromethane	*103*		*75 - 120*	*01/02/14 09:45*	*01/07/14 12:46*	*50*
Toluene-d8 (Surr)	*108*		*75 - 120*	*01/02/14 09:45*	*01/07/14 12:46*	*50*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<63		180	63	ug/Kg	☼	01/07/14 09:29	01/08/14 18:54	10
PCB-1221	<78		180	78	ug/Kg	☼	01/07/14 09:29	01/08/14 18:54	10
PCB-1232	<77		180	77	ug/Kg	☼	01/07/14 09:29	01/08/14 18:54	10
PCB-1242	**1400**		180	58	ug/Kg	☼	01/07/14 09:29	01/08/14 18:54	10
PCB-1248	<70		180	70	ug/Kg	☼	01/07/14 09:29	01/08/14 18:54	10
PCB-1254	<38		180	38	ug/Kg	☼	01/07/14 09:29	01/08/14 18:54	10
PCB-1260	<87		180	87	ug/Kg	☼	01/07/14 09:29	01/08/14 18:54	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*97*		*50 - 116*	*01/07/14 09:29*	*01/08/14 18:54*	*10*
DCB Decachlorobiphenyl	*96*		*48 - 142*	*01/07/14 09:29*	*01/08/14 18:54*	*10*

Client Sample ID: B-188 (9-11)

Lab Sample ID: 500-69547-3

Date Collected: 01/02/14 09:50
Matrix: Solid
Date Received: 01/03/14 10:30
Percent Solids: 93.2

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<30		170	30	ug/Kg	☼	01/02/14 09:50	01/07/14 13:10	50
1,1,1-Trichloroethane	<18		87	18	ug/Kg	☼	01/02/14 09:50	01/07/14 13:10	50
1,1,2,2-Tetrachloroethane	<20		87	20	ug/Kg	☼	01/02/14 09:50	01/07/14 13:10	50
1,1,2-Trichloroethane	<24		87	24	ug/Kg	☼	01/02/14 09:50	01/07/14 13:10	50
1,1-Dichloroethane	<16		87	16	ug/Kg	☼	01/02/14 09:50	01/07/14 13:10	50
1,1-Dichloroethene	<27		87	27	ug/Kg	☼	01/02/14 09:50	01/07/14 13:10	50
1,1-Dichloropropene	<30		87	30	ug/Kg	☼	01/02/14 09:50	01/07/14 13:10	50
1,2,3-Trichlorobenzene	<30		170	30	ug/Kg	☼	01/02/14 09:50	01/07/14 13:10	50
1,2,3-Trichloropropane	<50		170	50	ug/Kg	☼	01/02/14 09:50	01/07/14 13:10	50
1,2,4-Trichlorobenzene	<33		170	33	ug/Kg	☼	01/02/14 09:50	01/07/14 13:10	50
1,2,4-Trimethylbenzene	<18		170	18	ug/Kg	☼	01/02/14 09:50	01/07/14 13:10	50
1,2-Dibromo-3-Chloropropane	<76		170	76	ug/Kg	☼	01/02/14 09:50	01/07/14 13:10	50
1,2-Dibromoethane	<27		170	27	ug/Kg	☼	01/02/14 09:50	01/07/14 13:10	50
1,2-Dichlorobenzene	<18		170	18	ug/Kg	☼	01/02/14 09:50	01/07/14 13:10	50
1,2-Dichloroethane	<25		87	25	ug/Kg	☼	01/02/14 09:50	01/07/14 13:10	50
1,2-Dichloropropane	<17		87	17	ug/Kg	☼	01/02/14 09:50	01/07/14 13:10	50
1,3,5-Trimethylbenzene	<18		170	18	ug/Kg	☼	01/02/14 09:50	01/07/14 13:10	50
1,3-Dichlorobenzene	<22		170	22	ug/Kg	☼	01/02/14 09:50	01/07/14 13:10	50
1,3-Dichloropropane	<12		87	12	ug/Kg	☼	01/02/14 09:50	01/07/14 13:10	50
1,4-Dichlorobenzene	<15		170	15	ug/Kg	☼	01/02/14 09:50	01/07/14 13:10	50
2,2-Dichloropropane	<28		87	28	ug/Kg	☼	01/02/14 09:50	01/07/14 13:10	50
2-Chlorotoluene	<18		87	18	ug/Kg	☼	01/02/14 09:50	01/07/14 13:10	50
4-Chlorotoluene	<17		87	17	ug/Kg	☼	01/02/14 09:50	01/07/14 13:10	50
Benzene	<6.5		22	6.5	ug/Kg	☼	01/02/14 09:50	01/07/14 13:10	50
Bromobenzene	<37		170	37	ug/Kg	☼	01/02/14 09:50	01/07/14 13:10	50
Bromochloromethane	<33		170	33	ug/Kg	☼	01/02/14 09:50	01/07/14 13:10	50

Client Sample ID: B-188 (9-11)
Date Collected: 01/02/14 09:50
Date Received: 01/03/14 10:30

Lab Sample ID: 500-69547-3
Matrix: Solid
Percent Solids: 93.2

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromodichloromethane	<29		170	29	ug/Kg	☼	01/02/14 09:50	01/07/14 13:10	50
Bromoform	<38		170	38	ug/Kg	☼	01/02/14 09:50	01/07/14 13:10	50
Bromomethane	<59		170	59	ug/Kg	☼	01/02/14 09:50	01/07/14 13:10	50
Carbon tetrachloride	<22		87	22	ug/Kg	☼	01/02/14 09:50	01/07/14 13:10	50
Chlorobenzene	<12		87	12	ug/Kg	☼	01/02/14 09:50	01/07/14 13:10	50
Chloroethane	<38		170	38	ug/Kg	☼	01/02/14 09:50	01/07/14 13:10	50
Chloroform	<18		87	18	ug/Kg	☼	01/02/14 09:50	01/07/14 13:10	50
Chloromethane	<40		170	40	ug/Kg	☼	01/02/14 09:50	01/07/14 13:10	50
cis-1,2-Dichloroethene	<11		87	11	ug/Kg	☼	01/02/14 09:50	01/07/14 13:10	50
cis-1,3-Dichloropropene	<16		87	16	ug/Kg	☼	01/02/14 09:50	01/07/14 13:10	50
Dibromochloromethane	<30		170	30	ug/Kg	☼	01/02/14 09:50	01/07/14 13:10	50
Dibromomethane	<42		170	42	ug/Kg	☼	01/02/14 09:50	01/07/14 13:10	50
Dichlorodifluoromethane	<45	*	170	45	ug/Kg	☼	01/02/14 09:50	01/07/14 13:10	50
Ethylbenzene	<11		22	11	ug/Kg	☼	01/02/14 09:50	01/07/14 13:10	50
Hexachlorobutadiene	<30		170	30	ug/Kg	☼	01/02/14 09:50	01/07/14 13:10	50
Isopropyl ether	<13		170	13	ug/Kg	☼	01/02/14 09:50	01/07/14 13:10	50
Isopropylbenzene	<22		170	22	ug/Kg	☼	01/02/14 09:50	01/07/14 13:10	50
Methyl tert-butyl ether	<37		170	37	ug/Kg	☼	01/02/14 09:50	01/07/14 13:10	50
Methylene Chloride	<59		440	59	ug/Kg	☼	01/02/14 09:50	01/07/14 13:10	50
Naphthalene	<43		170	43	ug/Kg	☼	01/02/14 09:50	01/07/14 13:10	50
n-Butylbenzene	<11		87	11	ug/Kg	☼	01/02/14 09:50	01/07/14 13:10	50
N-Propylbenzene	<15		170	15	ug/Kg	☼	01/02/14 09:50	01/07/14 13:10	50
p-Isopropyltoluene	<16		170	16	ug/Kg	☼	01/02/14 09:50	01/07/14 13:10	50
sec-Butylbenzene	<13		87	13	ug/Kg	☼	01/02/14 09:50	01/07/14 13:10	50
Styrene	<8.6		87	8.6	ug/Kg	☼	01/02/14 09:50	01/07/14 13:10	50
tert-Butylbenzene	<12		87	12	ug/Kg	☼	01/02/14 09:50	01/07/14 13:10	50
Tetrachloroethene	<15		87	15	ug/Kg	☼	01/02/14 09:50	01/07/14 13:10	50
Toluene	<10		22	10	ug/Kg	☼	01/02/14 09:50	01/07/14 13:10	50
trans-1,2-Dichloroethene	<22		87	22	ug/Kg	☼	01/02/14 09:50	01/07/14 13:10	50
trans-1,3-Dichloropropene	<18		87	18	ug/Kg	☼	01/02/14 09:50	01/07/14 13:10	50
Trichloroethene	<16		44	16	ug/Kg	☼	01/02/14 09:50	01/07/14 13:10	50
Trichlorofluoromethane	<36		170	36	ug/Kg	☼	01/02/14 09:50	01/07/14 13:10	50
Vinyl chloride	<9.1		22	9.1	ug/Kg	☼	01/02/14 09:50	01/07/14 13:10	50
Xylenes, Total	<6.0		44	6.0	ug/Kg	☼	01/02/14 09:50	01/07/14 13:10	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*96*		*75 - 125*	*01/02/14 09:50*	*01/07/14 13:10*	*50*
4-Bromofluorobenzene (Surr)	*93*		*75 - 120*	*01/02/14 09:50*	*01/07/14 13:10*	*50*
Dibromofluoromethane	*100*		*75 - 120*	*01/02/14 09:50*	*01/07/14 13:10*	*50*
Toluene-d8 (Surr)	*108*		*75 - 120*	*01/02/14 09:50*	*01/07/14 13:10*	*50*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<6.2		17	6.2	ug/Kg	☼	01/07/14 09:29	01/08/14 10:56	1
PCB-1221	<7.7		17	7.7	ug/Kg	☼	01/07/14 09:29	01/08/14 10:56	1
PCB-1232	<7.6		17	7.6	ug/Kg	☼	01/07/14 09:29	01/08/14 10:56	1
PCB-1242	<5.7		17	5.7	ug/Kg	☼	01/07/14 09:29	01/08/14 10:56	1
PCB-1248	<6.9		17	6.9	ug/Kg	☼	01/07/14 09:29	01/08/14 10:56	1
PCB-1254	<3.8		17	3.8	ug/Kg	☼	01/07/14 09:29	01/08/14 10:56	1
PCB-1260	<8.6		17	8.6	ug/Kg	☼	01/07/14 09:29	01/08/14 10:56	1

Client Sample ID: B-188 (9-11) — **Lab Sample ID: 500-69547-3**
Date Collected: 01/02/14 09:50 — **Matrix: Solid**
Date Received: 01/03/14 10:30 — **Percent Solids: 93.2**

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	*73*		*50 - 116*	*01/07/14 09:29*	*01/08/14 10:56*	*1*
DCB Decachlorobiphenyl	*85*		*48 - 142*	*01/07/14 09:29*	*01/08/14 10:56*	*1*

Client Sample ID: B-188 (13-15) — **Lab Sample ID: 500-69547-4**
Date Collected: 01/02/14 09:55 — **Matrix: Solid**
Date Received: 01/03/14 10:30 — **Percent Solids: 93.5**

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<33		190	33	ug/Kg	☼	01/02/14 09:55	01/07/14 13:35	50
1,1,1-Trichloroethane	<19		97	19	ug/Kg	☼	01/02/14 09:55	01/07/14 13:35	50
1,1,2,2-Tetrachloroethane	<23		97	23	ug/Kg	☼	01/02/14 09:55	01/07/14 13:35	50
1,1,2-Trichloroethane	<27		97	27	ug/Kg	☼	01/02/14 09:55	01/07/14 13:35	50
1,1-Dichloroethane	<18		97	18	ug/Kg	☼	01/02/14 09:55	01/07/14 13:35	50
1,1-Dichloroethene	<30		97	30	ug/Kg	☼	01/02/14 09:55	01/07/14 13:35	50
1,1-Dichloropropene	<33		97	33	ug/Kg	☼	01/02/14 09:55	01/07/14 13:35	50
1,2,3-Trichlorobenzene	<34		190	34	ug/Kg	☼	01/02/14 09:55	01/07/14 13:35	50
1,2,3-Trichloropropane	<55		190	55	ug/Kg	☼	01/02/14 09:55	01/07/14 13:35	50
1,2,4-Trichlorobenzene	<37		190	37	ug/Kg	☼	01/02/14 09:55	01/07/14 13:35	50
1,2,4-Trimethylbenzene	<20		190	20	ug/Kg	☼	01/02/14 09:55	01/07/14 13:35	50
1,2-Dibromo-3-Chloropropane	<84		190	84	ug/Kg	☼	01/02/14 09:55	01/07/14 13:35	50
1,2-Dibromoethane	<30		190	30	ug/Kg	☼	01/02/14 09:55	01/07/14 13:35	50
1,2-Dichlorobenzene	<20		190	20	ug/Kg	☼	01/02/14 09:55	01/07/14 13:35	50
1,2-Dichloroethane	<28		97	28	ug/Kg	☼	01/02/14 09:55	01/07/14 13:35	50
1,2-Dichloropropane	<19		97	19	ug/Kg	☼	01/02/14 09:55	01/07/14 13:35	50
1,3,5-Trimethylbenzene	<20		190	20	ug/Kg	☼	01/02/14 09:55	01/07/14 13:35	50
1,3-Dichlorobenzene	<25		190	25	ug/Kg	☼	01/02/14 09:55	01/07/14 13:35	50
1,3-Dichloropropane	<13		97	13	ug/Kg	☼	01/02/14 09:55	01/07/14 13:35	50
1,4-Dichlorobenzene	<17		190	17	ug/Kg	☼	01/02/14 09:55	01/07/14 13:35	50
2,2-Dichloropropane	<31		97	31	ug/Kg	☼	01/02/14 09:55	01/07/14 13:35	50
2-Chlorotoluene	<20		97	20	ug/Kg	☼	01/02/14 09:55	01/07/14 13:35	50
4-Chlorotoluene	<19		97	19	ug/Kg	☼	01/02/14 09:55	01/07/14 13:35	50
Benzene	<7.2		24	7.2	ug/Kg	☼	01/02/14 09:55	01/07/14 13:35	50
Bromobenzene	<41		190	41	ug/Kg	☼	01/02/14 09:55	01/07/14 13:35	50
Bromochloromethane	<37		190	37	ug/Kg	☼	01/02/14 09:55	01/07/14 13:35	50
Bromodichloromethane	<33		190	33	ug/Kg	☼	01/02/14 09:55	01/07/14 13:35	50
Bromoform	<43		190	43	ug/Kg	☼	01/02/14 09:55	01/07/14 13:35	50
Bromomethane	<66		190	66	ug/Kg	☼	01/02/14 09:55	01/07/14 13:35	50
Carbon tetrachloride	<25		97	25	ug/Kg	☼	01/02/14 09:55	01/07/14 13:35	50
Chlorobenzene	<14		97	14	ug/Kg	☼	01/02/14 09:55	01/07/14 13:35	50
Chloroethane	<42		190	42	ug/Kg	☼	01/02/14 09:55	01/07/14 13:35	50
Chloroform	<20		97	20	ug/Kg	☼	01/02/14 09:55	01/07/14 13:35	50
Chloromethane	<45		190	45	ug/Kg	☼	01/02/14 09:55	01/07/14 13:35	50
cis-1,2-Dichloroethene	<12		97	12	ug/Kg	☼	01/02/14 09:55	01/07/14 13:35	50
cis-1,3-Dichloropropene	<17		97	17	ug/Kg	☼	01/02/14 09:55	01/07/14 13:35	50
Dibromochloromethane	<33		190	33	ug/Kg	☼	01/02/14 09:55	01/07/14 13:35	50
Dibromomethane	<46		190	46	ug/Kg	☼	01/02/14 09:55	01/07/14 13:35	50
Dichlorodifluoromethane	<50	*	190	50	ug/Kg	☼	01/02/14 09:55	01/07/14 13:35	50
Ethylbenzene	<12		24	12	ug/Kg	☼	01/02/14 09:55	01/07/14 13:35	50
Hexachlorobutadiene	<33		190	33	ug/Kg	☼	01/02/14 09:55	01/07/14 13:35	50

Client Sample ID: B-188 (13-15)

Lab Sample ID: 500-69547-4
Date Collected: 01/02/14 09:55
Matrix: Solid
Date Received: 01/03/14 10:30
Percent Solids: 93.5

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isopropyl ether	<14		190	14	ug/Kg	☼	01/02/14 09:55	01/07/14 13:35	50
Isopropylbenzene	<24		190	24	ug/Kg	☼	01/02/14 09:55	01/07/14 13:35	50
Methyl tert-butyl ether	<42		190	42	ug/Kg	☼	01/02/14 09:55	01/07/14 13:35	50
Methylene Chloride	<66		480	66	ug/Kg	☼	01/02/14 09:55	01/07/14 13:35	50
Naphthalene	<48		190	48	ug/Kg	☼	01/02/14 09:55	01/07/14 13:35	50
n-Butylbenzene	<12		97	12	ug/Kg	☼	01/02/14 09:55	01/07/14 13:35	50
N-Propylbenzene	<17		190	17	ug/Kg	☼	01/02/14 09:55	01/07/14 13:35	50
p-Isopropyltoluene	<18		190	18	ug/Kg	☼	01/02/14 09:55	01/07/14 13:35	50
sec-Butylbenzene	<15		97	15	ug/Kg	☼	01/02/14 09:55	01/07/14 13:35	50
Styrene	<9.5		97	9.5	ug/Kg	☼	01/02/14 09:55	01/07/14 13:35	50
tert-Butylbenzene	<13		97	13	ug/Kg	☼	01/02/14 09:55	01/07/14 13:35	50
Tetrachloroethene	<16		97	16	ug/Kg	☼	01/02/14 09:55	01/07/14 13:35	50
Toluene	<11		24	11	ug/Kg	☼	01/02/14 09:55	01/07/14 13:35	50
trans-1,2-Dichloroethene	<24		97	24	ug/Kg	☼	01/02/14 09:55	01/07/14 13:35	50
trans-1,3-Dichloropropene	<20		97	20	ug/Kg	☼	01/02/14 09:55	01/07/14 13:35	50
Trichloroethene	<18		48	18	ug/Kg	☼	01/02/14 09:55	01/07/14 13:35	50
Trichlorofluoromethane	<40		190	40	ug/Kg	☼	01/02/14 09:55	01/07/14 13:35	50
Vinyl chloride	<10		24	10	ug/Kg	☼	01/02/14 09:55	01/07/14 13:35	50
Xylenes, Total	<6.6		48	6.6	ug/Kg	☼	01/02/14 09:55	01/07/14 13:35	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*75 - 125*	*01/02/14 09:55*	*01/07/14 13:35*	*50*
4-Bromofluorobenzene (Surr)	*94*		*75 - 120*	*01/02/14 09:55*	*01/07/14 13:35*	*50*
Dibromofluoromethane	*102*		*75 - 120*	*01/02/14 09:55*	*01/07/14 13:35*	*50*
Toluene-d8 (Surr)	*107*		*75 - 120*	*01/02/14 09:55*	*01/07/14 13:35*	*50*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<6.2		18	6.2	ug/Kg	☼	01/07/14 09:29	01/08/14 11:10	1
PCB-1221	<7.7		18	7.7	ug/Kg	☼	01/07/14 09:29	01/08/14 11:10	1
PCB-1232	<7.6		18	7.6	ug/Kg	☼	01/07/14 09:29	01/08/14 11:10	1
PCB-1242	<5.8		18	5.8	ug/Kg	☼	01/07/14 09:29	01/08/14 11:10	1
PCB-1248	<6.9		18	6.9	ug/Kg	☼	01/07/14 09:29	01/08/14 11:10	1
PCB-1254	<3.8		18	3.8	ug/Kg	☼	01/07/14 09:29	01/08/14 11:10	1
PCB-1260	<8.6		18	8.6	ug/Kg	☼	01/07/14 09:29	01/08/14 11:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*77*		*50 - 116*	*01/07/14 09:29*	*01/08/14 11:10*	*1*
DCB Decachlorobiphenyl	*83*		*48 - 142*	*01/07/14 09:29*	*01/08/14 11:10*	*1*

Client Sample ID: B-149 (8-10)

Lab Sample ID: 500-69547-5
Date Collected: 01/02/14 10:45
Matrix: Solid
Date Received: 01/03/14 10:30
Percent Solids: 90.6

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<31		180	31	ug/Kg	☼	01/02/14 10:45	01/07/14 13:59	50
1,1,1-Trichloroethane	<18		89	18	ug/Kg	☼	01/02/14 10:45	01/07/14 13:59	50
1,1,2,2-Tetrachloroethane	<21		89	21	ug/Kg	☼	01/02/14 10:45	01/07/14 13:59	50
1,1,2-Trichloroethane	<25		89	25	ug/Kg	☼	01/02/14 10:45	01/07/14 13:59	50

Client: ARCADIS U.S., Inc.
Project/Site: MadisonKipp

TestAmerica Job ID: 500-69547-1

Client Sample ID: B-149 (8-10)
Date Collected: 01/02/14 10:45
Date Received: 01/03/14 10:30

Lab Sample ID: 500-69547-5
Matrix: Solid
Percent Solids: 90.6

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	<17		89	17	ug/Kg	☼	01/02/14 10:45	01/07/14 13:59	50
1,1-Dichloroethene	<27		89	27	ug/Kg	☼	01/02/14 10:45	01/07/14 13:59	50
1,1-Dichloropropene	<31		89	31	ug/Kg	☼	01/02/14 10:45	01/07/14 13:59	50
1,2,3-Trichlorobenzene	<31		180	31	ug/Kg	☼	01/02/14 10:45	01/07/14 13:59	50
1,2,3-Trichloropropane	<51		180	51	ug/Kg	☼	01/02/14 10:45	01/07/14 13:59	50
1,2,4-Trichlorobenzene	<34		180	34	ug/Kg	☼	01/02/14 10:45	01/07/14 13:59	50
1,2,4-Trimethylbenzene	**310**		180	19	ug/Kg	☼	01/02/14 10:45	01/07/14 13:59	50
1,2-Dibromo-3-Chloropropane	<78		180	78	ug/Kg	☼	01/02/14 10:45	01/07/14 13:59	50
1,2-Dibromoethane	<28		180	28	ug/Kg	☼	01/02/14 10:45	01/07/14 13:59	50
1,2-Dichlorobenzene	<18		180	18	ug/Kg	☼	01/02/14 10:45	01/07/14 13:59	50
1,2-Dichloroethane	<25		89	25	ug/Kg	☼	01/02/14 10:45	01/07/14 13:59	50
1,2-Dichloropropane	<18		89	18	ug/Kg	☼	01/02/14 10:45	01/07/14 13:59	50
1,3,5-Trimethylbenzene	**96**	**J**	180	18	ug/Kg	☼	01/02/14 10:45	01/07/14 13:59	50
1,3-Dichlorobenzene	<23		180	23	ug/Kg	☼	01/02/14 10:45	01/07/14 13:59	50
1,3-Dichloropropane	<12		89	12	ug/Kg	☼	01/02/14 10:45	01/07/14 13:59	50
1,4-Dichlorobenzene	<16		180	16	ug/Kg	☼	01/02/14 10:45	01/07/14 13:59	50
2,2-Dichloropropane	<28		89	28	ug/Kg	☼	01/02/14 10:45	01/07/14 13:59	50
2-Chlorotoluene	<19		89	19	ug/Kg	☼	01/02/14 10:45	01/07/14 13:59	50
4-Chlorotoluene	<18		89	18	ug/Kg	☼	01/02/14 10:45	01/07/14 13:59	50
Benzene	<6.6		22	6.6	ug/Kg	☼	01/02/14 10:45	01/07/14 13:59	50
Bromobenzene	<38		180	38	ug/Kg	☼	01/02/14 10:45	01/07/14 13:59	50
Bromochloromethane	<34		180	34	ug/Kg	☼	01/02/14 10:45	01/07/14 13:59	50
Bromodichloromethane	<30		180	30	ug/Kg	☼	01/02/14 10:45	01/07/14 13:59	50
Bromoform	<39		180	39	ug/Kg	☼	01/02/14 10:45	01/07/14 13:59	50
Bromomethane	<61		180	61	ug/Kg	☼	01/02/14 10:45	01/07/14 13:59	50
Carbon tetrachloride	<23		89	23	ug/Kg	☼	01/02/14 10:45	01/07/14 13:59	50
Chlorobenzene	<13		89	13	ug/Kg	☼	01/02/14 10:45	01/07/14 13:59	50
Chloroethane	<39		180	39	ug/Kg	☼	01/02/14 10:45	01/07/14 13:59	50
Chloroform	<18		89	18	ug/Kg	☼	01/02/14 10:45	01/07/14 13:59	50
Chloromethane	<41		180	41	ug/Kg	☼	01/02/14 10:45	01/07/14 13:59	50
cis-1,2-Dichloroethene	<11		89	11	ug/Kg	☼	01/02/14 10:45	01/07/14 13:59	50
cis-1,3-Dichloropropene	<16		89	16	ug/Kg	☼	01/02/14 10:45	01/07/14 13:59	50
Dibromochloromethane	<31		180	31	ug/Kg	☼	01/02/14 10:45	01/07/14 13:59	50
Dibromomethane	<43		180	43	ug/Kg	☼	01/02/14 10:45	01/07/14 13:59	50
Dichlorodifluoromethane	<46	*	180	46	ug/Kg	☼	01/02/14 10:45	01/07/14 13:59	50
Ethylbenzene	<11		22	11	ug/Kg	☼	01/02/14 10:45	01/07/14 13:59	50
Hexachlorobutadiene	<31		180	31	ug/Kg	☼	01/02/14 10:45	01/07/14 13:59	50
Isopropyl ether	<13		180	13	ug/Kg	☼	01/02/14 10:45	01/07/14 13:59	50
Isopropylbenzene	<22		180	22	ug/Kg	☼	01/02/14 10:45	01/07/14 13:59	50
Methyl tert-butyl ether	<38		180	38	ug/Kg	☼	01/02/14 10:45	01/07/14 13:59	50
Methylene Chloride	<61		450	61	ug/Kg	☼	01/02/14 10:45	01/07/14 13:59	50
Naphthalene	<44		180	44	ug/Kg	☼	01/02/14 10:45	01/07/14 13:59	50
n-Butylbenzene	**69**	**J**	89	12	ug/Kg	☼	01/02/14 10:45	01/07/14 13:59	50
N-Propylbenzene	<16		180	16	ug/Kg	☼	01/02/14 10:45	01/07/14 13:59	50
p-Isopropyltoluene	<17		180	17	ug/Kg	☼	01/02/14 10:45	01/07/14 13:59	50
sec-Butylbenzene	<14		89	14	ug/Kg	☼	01/02/14 10:45	01/07/14 13:59	50
Styrene	<8.8		89	8.8	ug/Kg	☼	01/02/14 10:45	01/07/14 13:59	50
tert-Butylbenzene	<12		89	12	ug/Kg	☼	01/02/14 10:45	01/07/14 13:59	50
Tetrachloroethene	**77**	**J**	89	15	ug/Kg	☼	01/02/14 10:45	01/07/14 13:59	50

Client Sample ID: B-149 (8-10)

Lab Sample ID: 500-69547-5

Date Collected: 01/02/14 10:45
Matrix: Solid
Date Received: 01/03/14 10:30
Percent Solids: 90.6

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	<10		22	10	ug/Kg	☼	01/02/14 10:45	01/07/14 13:59	50
trans-1,2-Dichloroethene	<22		89	22	ug/Kg	☼	01/02/14 10:45	01/07/14 13:59	50
trans-1,3-Dichloropropene	<19		89	19	ug/Kg	☼	01/02/14 10:45	01/07/14 13:59	50
Trichloroethene	<17		45	17	ug/Kg	☼	01/02/14 10:45	01/07/14 13:59	50
Trichlorofluoromethane	<37		180	37	ug/Kg	☼	01/02/14 10:45	01/07/14 13:59	50
Vinyl chloride	<9.3		22	9.3	ug/Kg	☼	01/02/14 10:45	01/07/14 13:59	50
Xylenes, Total	**50**		45	6.1	ug/Kg	☼	01/02/14 10:45	01/07/14 13:59	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*75 - 125*	*01/02/14 10:45*	*01/07/14 13:59*	*50*
4-Bromofluorobenzene (Surr)	*95*		*75 - 120*	*01/02/14 10:45*	*01/07/14 13:59*	*50*
Dibromofluoromethane	*102*		*75 - 120*	*01/02/14 10:45*	*01/07/14 13:59*	*50*
Toluene-d8 (Surr)	*106*		*75 - 120*	*01/02/14 10:45*	*01/07/14 13:59*	*50*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<32000		90000	32000	ug/Kg	☼	01/07/14 09:29	01/09/14 12:51	5000
PCB-1221	<40000		90000	40000	ug/Kg	☼	01/07/14 09:29	01/09/14 12:51	5000
PCB-1232	<39000		90000	39000	ug/Kg	☼	01/07/14 09:29	01/09/14 12:51	5000
PCB-1242	**800000**		90000	30000	ug/Kg	☼	01/07/14 09:29	01/09/14 12:51	5000
PCB-1248	<35000		90000	35000	ug/Kg	☼	01/07/14 09:29	01/09/14 12:51	5000
PCB-1254	<19000		90000	19000	ug/Kg	☼	01/07/14 09:29	01/09/14 12:51	5000
PCB-1260	<44000		90000	44000	ug/Kg	☼	01/07/14 09:29	01/09/14 12:51	5000

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*0*	*D*	*50 - 116*	*01/07/14 09:29*	*01/09/14 12:51*	*5000*
DCB Decachlorobiphenyl	*0*	*D*	*48 - 142*	*01/07/14 09:29*	*01/09/14 12:51*	*5000*

Client Sample ID: B-149 (10-11.4)

Lab Sample ID: 500-69547-6

Date Collected: 01/02/14 10:55
Matrix: Solid
Date Received: 01/03/14 10:30
Percent Solids: 96.1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<29		170	29	ug/Kg	☼	01/02/14 10:55	01/07/14 14:24	50
1,1,1-Trichloroethane	<17		84	17	ug/Kg	☼	01/02/14 10:55	01/07/14 14:24	50
1,1,2,2-Tetrachloroethane	<20		84	20	ug/Kg	☼	01/02/14 10:55	01/07/14 14:24	50
1,1,2-Trichloroethane	<24		84	24	ug/Kg	☼	01/02/14 10:55	01/07/14 14:24	50
1,1-Dichloroethane	<16		84	16	ug/Kg	☼	01/02/14 10:55	01/07/14 14:24	50
1,1-Dichloroethene	<26		84	26	ug/Kg	☼	01/02/14 10:55	01/07/14 14:24	50
1,1-Dichloropropene	<29		84	29	ug/Kg	☼	01/02/14 10:55	01/07/14 14:24	50
1,2,3-Trichlorobenzene	<30		170	30	ug/Kg	☼	01/02/14 10:55	01/07/14 14:24	50
1,2,3-Trichloropropane	<48		170	48	ug/Kg	☼	01/02/14 10:55	01/07/14 14:24	50
1,2,4-Trichlorobenzene	<32		170	32	ug/Kg	☼	01/02/14 10:55	01/07/14 14:24	50
1,2,4-Trimethylbenzene	**280**		170	18	ug/Kg	☼	01/02/14 10:55	01/07/14 14:24	50
1,2-Dibromo-3-Chloropropane	<73		170	73	ug/Kg	☼	01/02/14 10:55	01/07/14 14:24	50
1,2-Dibromoethane	<26		170	26	ug/Kg	☼	01/02/14 10:55	01/07/14 14:24	50
1,2-Dichlorobenzene	<17		170	17	ug/Kg	☼	01/02/14 10:55	01/07/14 14:24	50
1,2-Dichloroethane	<24		84	24	ug/Kg	☼	01/02/14 10:55	01/07/14 14:24	50
1,2-Dichloropropane	<17		84	17	ug/Kg	☼	01/02/14 10:55	01/07/14 14:24	50

Client: ARCADIS U.S., Inc.
Project/Site: MadisonKipp

TestAmerica Job ID: 500-69547-1

Client Sample ID: B-149 (10-11.4)
Date Collected: 01/02/14 10:55
Date Received: 01/03/14 10:30

Lab Sample ID: 500-69547-6
Matrix: Solid
Percent Solids: 96.1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3,5-Trimethylbenzene	**91**	**J**	170	17	ug/Kg	☼	01/02/14 10:55	01/07/14 14:24	50
1,3-Dichlorobenzene	<22		170	22	ug/Kg	☼	01/02/14 10:55	01/07/14 14:24	50
1,3-Dichloropropane	<11		84	11	ug/Kg	☼	01/02/14 10:55	01/07/14 14:24	50
1,4-Dichlorobenzene	<15		170	15	ug/Kg	☼	01/02/14 10:55	01/07/14 14:24	50
2,2-Dichloropropane	<27		84	27	ug/Kg	☼	01/02/14 10:55	01/07/14 14:24	50
2-Chlorotoluene	<17		84	17	ug/Kg	☼	01/02/14 10:55	01/07/14 14:24	50
4-Chlorotoluene	<17		84	17	ug/Kg	☼	01/02/14 10:55	01/07/14 14:24	50
Benzene	<6.3		21	6.3	ug/Kg	☼	01/02/14 10:55	01/07/14 14:24	50
Bromobenzene	<36		170	36	ug/Kg	☼	01/02/14 10:55	01/07/14 14:24	50
Bromochloromethane	<32		170	32	ug/Kg	☼	01/02/14 10:55	01/07/14 14:24	50
Bromodichloromethane	<29		170	29	ug/Kg	☼	01/02/14 10:55	01/07/14 14:24	50
Bromoform	<37		170	37	ug/Kg	☼	01/02/14 10:55	01/07/14 14:24	50
Bromomethane	<58		170	58	ug/Kg	☼	01/02/14 10:55	01/07/14 14:24	50
Carbon tetrachloride	<22		84	22	ug/Kg	☼	01/02/14 10:55	01/07/14 14:24	50
Chlorobenzene	<12		84	12	ug/Kg	☼	01/02/14 10:55	01/07/14 14:24	50
Chloroethane	<37		170	37	ug/Kg	☼	01/02/14 10:55	01/07/14 14:24	50
Chloroform	<17		84	17	ug/Kg	☼	01/02/14 10:55	01/07/14 14:24	50
Chloromethane	<39		170	39	ug/Kg	☼	01/02/14 10:55	01/07/14 14:24	50
cis-1,2-Dichloroethene	<10		84	10	ug/Kg	☼	01/02/14 10:55	01/07/14 14:24	50
cis-1,3-Dichloropropene	<15		84	15	ug/Kg	☼	01/02/14 10:55	01/07/14 14:24	50
Dibromochloromethane	<29		170	29	ug/Kg	☼	01/02/14 10:55	01/07/14 14:24	50
Dibromomethane	<41		170	41	ug/Kg	☼	01/02/14 10:55	01/07/14 14:24	50
Dichlorodifluoromethane	<43	*	170	43	ug/Kg	☼	01/02/14 10:55	01/07/14 14:24	50
Ethylbenzene	<11		21	11	ug/Kg	☼	01/02/14 10:55	01/07/14 14:24	50
Hexachlorobutadiene	<29		170	29	ug/Kg	☼	01/02/14 10:55	01/07/14 14:24	50
Isopropyl ether	<12		170	12	ug/Kg	☼	01/02/14 10:55	01/07/14 14:24	50
Isopropylbenzene	<21		170	21	ug/Kg	☼	01/02/14 10:55	01/07/14 14:24	50
Methyl tert-butyl ether	<36		170	36	ug/Kg	☼	01/02/14 10:55	01/07/14 14:24	50
Methylene Chloride	<58		420	58	ug/Kg	☼	01/02/14 10:55	01/07/14 14:24	50
Naphthalene	**110**	**J**	170	42	ug/Kg	☼	01/02/14 10:55	01/07/14 14:24	50
n-Butylbenzene	**66**	**J**	84	11	ug/Kg	☼	01/02/14 10:55	01/07/14 14:24	50
N-Propylbenzene	<15		170	15	ug/Kg	☼	01/02/14 10:55	01/07/14 14:24	50
p-Isopropyltoluene	<16		170	16	ug/Kg	☼	01/02/14 10:55	01/07/14 14:24	50
sec-Butylbenzene	<13		84	13	ug/Kg	☼	01/02/14 10:55	01/07/14 14:24	50
Styrene	<8.3		84	8.3	ug/Kg	☼	01/02/14 10:55	01/07/14 14:24	50
tert-Butylbenzene	<11		84	11	ug/Kg	☼	01/02/14 10:55	01/07/14 14:24	50
Tetrachloroethene	**300**		84	14	ug/Kg	☼	01/02/14 10:55	01/07/14 14:24	50
Toluene	**30**		21	9.7	ug/Kg	☼	01/02/14 10:55	01/07/14 14:24	50
trans-1,2-Dichloroethene	<21		84	21	ug/Kg	☼	01/02/14 10:55	01/07/14 14:24	50
trans-1,3-Dichloropropene	<18		84	18	ug/Kg	☼	01/02/14 10:55	01/07/14 14:24	50
Trichloroethene	<16		42	16	ug/Kg	☼	01/02/14 10:55	01/07/14 14:24	50
Trichlorofluoromethane	<35		170	35	ug/Kg	☼	01/02/14 10:55	01/07/14 14:24	50
Vinyl chloride	<8.8		21	8.8	ug/Kg	☼	01/02/14 10:55	01/07/14 14:24	50
Xylenes, Total	**72**		42	5.8	ug/Kg	☼	01/02/14 10:55	01/07/14 14:24	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*75 - 125*	*01/02/14 10:55*	*01/07/14 14:24*	*50*
4-Bromofluorobenzene (Surr)	*93*		*75 - 120*	*01/02/14 10:55*	*01/07/14 14:24*	*50*
Dibromofluoromethane	*102*		*75 - 120*	*01/02/14 10:55*	*01/07/14 14:24*	*50*
Toluene-d8 (Surr)	*105*		*75 - 120*	*01/02/14 10:55*	*01/07/14 14:24*	*50*

Client Sample ID: B-149 (10-11.4)

Lab Sample ID: 500-69547-6

Date Collected: 01/02/14 10:55

Matrix: Solid

Date Received: 01/03/14 10:30

Percent Solids: 96.1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<1200		3300	1200	ug/Kg	☼	01/07/14 09:29	01/08/14 19:22	200
PCB-1221	<1500		3300	1500	ug/Kg	☼	01/07/14 09:29	01/08/14 19:22	200
PCB-1232	<1400		3300	1400	ug/Kg	☼	01/07/14 09:29	01/08/14 19:22	200
PCB-1242	**27000**		3300	1100	ug/Kg	☼	01/07/14 09:29	01/08/14 19:22	200
PCB-1248	<1300		3300	1300	ug/Kg	☼	01/07/14 09:29	01/08/14 19:22	200
PCB-1254	<720		3300	720	ug/Kg	☼	01/07/14 09:29	01/08/14 19:22	200
PCB-1260	<1600		3300	1600	ug/Kg	☼	01/07/14 09:29	01/08/14 19:22	200

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*0*	*D*	*50 - 116*	*01/07/14 09:29*	*01/08/14 19:22*	*200*
DCB Decachlorobiphenyl	*0*	*D*	*48 - 142*	*01/07/14 09:29*	*01/08/14 19:22*	*200*

Client Sample ID: B-181 (1.5-3.5)

Lab Sample ID: 500-69547-7

Date Collected: 01/02/14 11:10

Matrix: Solid

Date Received: 01/03/14 10:30

Percent Solids: 82.6

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<45		260	45	ug/Kg	☼	01/02/14 11:10	01/07/14 14:48	50
1,1,1-Trichloroethane	<26		130	26	ug/Kg	☼	01/02/14 11:10	01/07/14 14:48	50
1,1,2,2-Tetrachloroethane	<31		130	31	ug/Kg	☼	01/02/14 11:10	01/07/14 14:48	50
1,1,2-Trichloroethane	<36		130	36	ug/Kg	☼	01/02/14 11:10	01/07/14 14:48	50
1,1-Dichloroethane	<24		130	24	ug/Kg	☼	01/02/14 11:10	01/07/14 14:48	50
1,1-Dichloroethene	<40		130	40	ug/Kg	☼	01/02/14 11:10	01/07/14 14:48	50
1,1-Dichloropropene	<45		130	45	ug/Kg	☼	01/02/14 11:10	01/07/14 14:48	50
1,2,3-Trichlorobenzene	<46		260	46	ug/Kg	☼	01/02/14 11:10	01/07/14 14:48	50
1,2,3-Trichloropropane	<75		260	75	ug/Kg	☼	01/02/14 11:10	01/07/14 14:48	50
1,2,4-Trichlorobenzene	<49		260	49	ug/Kg	☼	01/02/14 11:10	01/07/14 14:48	50
1,2,4-Trimethylbenzene	**580**		260	28	ug/Kg	☼	01/02/14 11:10	01/07/14 14:48	50
1,2-Dibromo-3-Chloropropane	<110		260	110	ug/Kg	☼	01/02/14 11:10	01/07/14 14:48	50
1,2-Dibromoethane	<41		260	41	ug/Kg	☼	01/02/14 11:10	01/07/14 14:48	50
1,2-Dichlorobenzene	<27		260	27	ug/Kg	☼	01/02/14 11:10	01/07/14 14:48	50
1,2-Dichloroethane	<37		130	37	ug/Kg	☼	01/02/14 11:10	01/07/14 14:48	50
1,2-Dichloropropane	<26		130	26	ug/Kg	☼	01/02/14 11:10	01/07/14 14:48	50
1,3,5-Trimethylbenzene	**590**		260	27	ug/Kg	☼	01/02/14 11:10	01/07/14 14:48	50
1,3-Dichlorobenzene	<34		260	34	ug/Kg	☼	01/02/14 11:10	01/07/14 14:48	50
1,3-Dichloropropane	<18		130	18	ug/Kg	☼	01/02/14 11:10	01/07/14 14:48	50
1,4-Dichlorobenzene	<23		260	23	ug/Kg	☼	01/02/14 11:10	01/07/14 14:48	50
2,2-Dichloropropane	<41		130	41	ug/Kg	☼	01/02/14 11:10	01/07/14 14:48	50
2-Chlorotoluene	<27		130	27	ug/Kg	☼	01/02/14 11:10	01/07/14 14:48	50
4-Chlorotoluene	<26		130	26	ug/Kg	☼	01/02/14 11:10	01/07/14 14:48	50
Benzene	<9.7		33	9.7	ug/Kg	☼	01/02/14 11:10	01/07/14 14:48	50
Bromobenzene	<56		260	56	ug/Kg	☼	01/02/14 11:10	01/07/14 14:48	50
Bromochloromethane	<49		260	49	ug/Kg	☼	01/02/14 11:10	01/07/14 14:48	50
Bromodichloromethane	<44		260	44	ug/Kg	☼	01/02/14 11:10	01/07/14 14:48	50
Bromoform	<58		260	58	ug/Kg	☼	01/02/14 11:10	01/07/14 14:48	50
Bromomethane	<89		260	89	ug/Kg	☼	01/02/14 11:10	01/07/14 14:48	50
Carbon tetrachloride	<34		130	34	ug/Kg	☼	01/02/14 11:10	01/07/14 14:48	50
Chlorobenzene	<19		130	19	ug/Kg	☼	01/02/14 11:10	01/07/14 14:48	50
Chloroethane	<57		260	57	ug/Kg	☼	01/02/14 11:10	01/07/14 14:48	50

Client Sample ID: B-181 (1.5-3.5)
Date Collected: 01/02/14 11:10
Date Received: 01/03/14 10:30

Lab Sample ID: 500-69547-7
Matrix: Solid
Percent Solids: 82.6

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroform	<27		130	27	ug/Kg	☼	01/02/14 11:10	01/07/14 14:48	50
Chloromethane	<60		260	60	ug/Kg	☼	01/02/14 11:10	01/07/14 14:48	50
cis-1,2-Dichloroethene	<16		130	16	ug/Kg	☼	01/02/14 11:10	01/07/14 14:48	50
cis-1,3-Dichloropropene	<23		130	23	ug/Kg	☼	01/02/14 11:10	01/07/14 14:48	50
Dibromochloromethane	<45		260	45	ug/Kg	☼	01/02/14 11:10	01/07/14 14:48	50
Dibromomethane	<63		260	63	ug/Kg	☼	01/02/14 11:10	01/07/14 14:48	50
Dichlorodifluoromethane	<67	*	260	67	ug/Kg	☼	01/02/14 11:10	01/07/14 14:48	50
Ethylbenzene	<16		33	16	ug/Kg	☼	01/02/14 11:10	01/07/14 14:48	50
Hexachlorobutadiene	<45		260	45	ug/Kg	☼	01/02/14 11:10	01/07/14 14:48	50
Isopropyl ether	<19		260	19	ug/Kg	☼	01/02/14 11:10	01/07/14 14:48	50
Isopropylbenzene	**97**	**J**	260	33	ug/Kg	☼	01/02/14 11:10	01/07/14 14:48	50
Methyl tert-butyl ether	<56		260	56	ug/Kg	☼	01/02/14 11:10	01/07/14 14:48	50
Methylene Chloride	<89		650	89	ug/Kg	☼	01/02/14 11:10	01/07/14 14:48	50
Naphthalene	<65		260	65	ug/Kg	☼	01/02/14 11:10	01/07/14 14:48	50
n-Butylbenzene	**83**	**J**	130	17	ug/Kg	☼	01/02/14 11:10	01/07/14 14:48	50
N-Propylbenzene	**69**	**J**	260	23	ug/Kg	☼	01/02/14 11:10	01/07/14 14:48	50
p-Isopropyltoluene	<24		260	24	ug/Kg	☼	01/02/14 11:10	01/07/14 14:48	50
sec-Butylbenzene	**66**	**J**	130	20	ug/Kg	☼	01/02/14 11:10	01/07/14 14:48	50
Styrene	<13		130	13	ug/Kg	☼	01/02/14 11:10	01/07/14 14:48	50
tert-Butylbenzene	<18		130	18	ug/Kg	☼	01/02/14 11:10	01/07/14 14:48	50
Tetrachloroethene	**240**		130	22	ug/Kg	☼	01/02/14 11:10	01/07/14 14:48	50
Toluene	<15		33	15	ug/Kg	☼	01/02/14 11:10	01/07/14 14:48	50
trans-1,2-Dichloroethene	<33		130	33	ug/Kg	☼	01/02/14 11:10	01/07/14 14:48	50
trans-1,3-Dichloropropene	<27		130	27	ug/Kg	☼	01/02/14 11:10	01/07/14 14:48	50
Trichloroethene	<24		65	24	ug/Kg	☼	01/02/14 11:10	01/07/14 14:48	50
Trichlorofluoromethane	<54		260	54	ug/Kg	☼	01/02/14 11:10	01/07/14 14:48	50
Vinyl chloride	<14		33	14	ug/Kg	☼	01/02/14 11:10	01/07/14 14:48	50
Xylenes, Total	**130**		65	8.9	ug/Kg	☼	01/02/14 11:10	01/07/14 14:48	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*75 - 125*	*01/02/14 11:10*	*01/07/14 14:48*	*50*
4-Bromofluorobenzene (Surr)	*100*		*75 - 120*	*01/02/14 11:10*	*01/07/14 14:48*	*50*
Dibromofluoromethane	*103*		*75 - 120*	*01/02/14 11:10*	*01/07/14 14:48*	*50*
Toluene-d8 (Surr)	*106*		*75 - 120*	*01/02/14 11:10*	*01/07/14 14:48*	*50*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<7100		20000	7100	ug/Kg	☼	01/07/14 09:29	01/09/14 13:05	1000
PCB-1221	<8800		20000	8800	ug/Kg	☼	01/07/14 09:29	01/09/14 13:05	1000
PCB-1232	<8700		20000	8700	ug/Kg	☼	01/07/14 09:29	01/09/14 13:05	1000
PCB-1242	**160000**		20000	6600	ug/Kg	☼	01/07/14 09:29	01/09/14 13:05	1000
PCB-1248	<7900		20000	7900	ug/Kg	☼	01/07/14 09:29	01/09/14 13:05	1000
PCB-1254	<4300		20000	4300	ug/Kg	☼	01/07/14 09:29	01/09/14 13:05	1000
PCB-1260	<9800		20000	9800	ug/Kg	☼	01/07/14 09:29	01/09/14 13:05	1000

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*0*	*D*	*50 - 116*	*01/07/14 09:29*	*01/09/14 13:05*	*1000*
DCB Decachlorobiphenyl	*0*	*D*	*48 - 142*	*01/07/14 09:29*	*01/09/14 13:05*	*1000*

Client: ARCADIS U.S., Inc.
Project/Site: MadisonKipp

TestAmerica Job ID: 500-69547-1

Client Sample ID: B-181 (4-6)
Date Collected: 01/02/14 11:15
Date Received: 01/03/14 10:30

Lab Sample ID: 500-69547-8
Matrix: Solid
Percent Solids: 87.3

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<38		220	38	ug/Kg	☼	01/02/14 11:15	01/07/14 15:12	50
1,1,1-Trichloroethane	<22		110	22	ug/Kg	☼	01/02/14 11:15	01/07/14 15:12	50
1,1,2,2-Tetrachloroethane	<26		110	26	ug/Kg	☼	01/02/14 11:15	01/07/14 15:12	50
1,1,2-Trichloroethane	<31		110	31	ug/Kg	☼	01/02/14 11:15	01/07/14 15:12	50
1,1-Dichloroethane	<20		110	20	ug/Kg	☼	01/02/14 11:15	01/07/14 15:12	50
1,1-Dichloroethene	<34		110	34	ug/Kg	☼	01/02/14 11:15	01/07/14 15:12	50
1,1-Dichloropropene	<38		110	38	ug/Kg	☼	01/02/14 11:15	01/07/14 15:12	50
1,2,3-Trichlorobenzene	<39		220	39	ug/Kg	☼	01/02/14 11:15	01/07/14 15:12	50
1,2,3-Trichloropropane	<63		220	63	ug/Kg	☼	01/02/14 11:15	01/07/14 15:12	50
1,2,4-Trichlorobenzene	**100**	**J**	220	42	ug/Kg	☼	01/02/14 11:15	01/07/14 15:12	50
1,2,4-Trimethylbenzene	**1000**		220	23	ug/Kg	☼	01/02/14 11:15	01/07/14 15:12	50
1,2-Dibromo-3-Chloropropane	<96		220	96	ug/Kg	☼	01/02/14 11:15	01/07/14 15:12	50
1,2-Dibromoethane	<35		220	35	ug/Kg	☼	01/02/14 11:15	01/07/14 15:12	50
1,2-Dichlorobenzene	<23		220	23	ug/Kg	☼	01/02/14 11:15	01/07/14 15:12	50
1,2-Dichloroethane	<31		110	31	ug/Kg	☼	01/02/14 11:15	01/07/14 15:12	50
1,2-Dichloropropane	<22		110	22	ug/Kg	☼	01/02/14 11:15	01/07/14 15:12	50
1,3,5-Trimethylbenzene	**960**		220	23	ug/Kg	☼	01/02/14 11:15	01/07/14 15:12	50
1,3-Dichlorobenzene	<28		220	28	ug/Kg	☼	01/02/14 11:15	01/07/14 15:12	50
1,3-Dichloropropane	<15		110	15	ug/Kg	☼	01/02/14 11:15	01/07/14 15:12	50
1,4-Dichlorobenzene	<19		220	19	ug/Kg	☼	01/02/14 11:15	01/07/14 15:12	50
2,2-Dichloropropane	<35		110	35	ug/Kg	☼	01/02/14 11:15	01/07/14 15:12	50
2-Chlorotoluene	<23		110	23	ug/Kg	☼	01/02/14 11:15	01/07/14 15:12	50
4-Chlorotoluene	<22		110	22	ug/Kg	☼	01/02/14 11:15	01/07/14 15:12	50
Benzene	<8.2		28	8.2	ug/Kg	☼	01/02/14 11:15	01/07/14 15:12	50
Bromobenzene	<47		220	47	ug/Kg	☼	01/02/14 11:15	01/07/14 15:12	50
Bromochloromethane	<42		220	42	ug/Kg	☼	01/02/14 11:15	01/07/14 15:12	50
Bromodichloromethane	<37		220	37	ug/Kg	☼	01/02/14 11:15	01/07/14 15:12	50
Bromoform	<49		220	49	ug/Kg	☼	01/02/14 11:15	01/07/14 15:12	50
Bromomethane	<75		220	75	ug/Kg	☼	01/02/14 11:15	01/07/14 15:12	50
Carbon tetrachloride	<28		110	28	ug/Kg	☼	01/02/14 11:15	01/07/14 15:12	50
Chlorobenzene	<16		110	16	ug/Kg	☼	01/02/14 11:15	01/07/14 15:12	50
Chloroethane	<48		220	48	ug/Kg	☼	01/02/14 11:15	01/07/14 15:12	50
Chloroform	<23		110	23	ug/Kg	☼	01/02/14 11:15	01/07/14 15:12	50
Chloromethane	<51		220	51	ug/Kg	☼	01/02/14 11:15	01/07/14 15:12	50
cis-1,2-Dichloroethene	**59**	**J**	110	14	ug/Kg	☼	01/02/14 11:15	01/07/14 15:12	50
cis-1,3-Dichloropropene	<20		110	20	ug/Kg	☼	01/02/14 11:15	01/07/14 15:12	50
Dibromochloromethane	<38		220	38	ug/Kg	☼	01/02/14 11:15	01/07/14 15:12	50
Dibromomethane	<53		220	53	ug/Kg	☼	01/02/14 11:15	01/07/14 15:12	50
Dichlorodifluoromethane	<56	*	220	56	ug/Kg	☼	01/02/14 11:15	01/07/14 15:12	50
Ethylbenzene	<14		28	14	ug/Kg	☼	01/02/14 11:15	01/07/14 15:12	50
Hexachlorobutadiene	<38		220	38	ug/Kg	☼	01/02/14 11:15	01/07/14 15:12	50
Isopropyl ether	<16		220	16	ug/Kg	☼	01/02/14 11:15	01/07/14 15:12	50
Isopropylbenzene	**120**	**J**	220	28	ug/Kg	☼	01/02/14 11:15	01/07/14 15:12	50
Methyl tert-butyl ether	<47		220	47	ug/Kg	☼	01/02/14 11:15	01/07/14 15:12	50
Methylene Chloride	<75		550	75	ug/Kg	☼	01/02/14 11:15	01/07/14 15:12	50
Naphthalene	<54		220	54	ug/Kg	☼	01/02/14 11:15	01/07/14 15:12	50
n-Butylbenzene	**180**		110	14	ug/Kg	☼	01/02/14 11:15	01/07/14 15:12	50
N-Propylbenzene	**96**	**J**	220	19	ug/Kg	☼	01/02/14 11:15	01/07/14 15:12	50
p-Isopropyltoluene	**78**	**J**	220	20	ug/Kg	☼	01/02/14 11:15	01/07/14 15:12	50

Client Sample ID: B-181 (4-6)

Lab Sample ID: 500-69547-8
Date Collected: 01/02/14 11:15
Matrix: Solid
Date Received: 01/03/14 10:30
Percent Solids: 87.3

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	**110**		110	17	ug/Kg	☼	01/02/14 11:15	01/07/14 15:12	50
Styrene	<11		110	11	ug/Kg	☼	01/02/14 11:15	01/07/14 15:12	50
tert-Butylbenzene	<15		110	15	ug/Kg	☼	01/02/14 11:15	01/07/14 15:12	50
Tetrachloroethene	**660**		110	18	ug/Kg	☼	01/02/14 11:15	01/07/14 15:12	50
Toluene	**27**	**J**	28	13	ug/Kg	☼	01/02/14 11:15	01/07/14 15:12	50
trans-1,2-Dichloroethene	<28		110	28	ug/Kg	☼	01/02/14 11:15	01/07/14 15:12	50
trans-1,3-Dichloropropene	<23		110	23	ug/Kg	☼	01/02/14 11:15	01/07/14 15:12	50
Trichloroethene	<20		55	20	ug/Kg	☼	01/02/14 11:15	01/07/14 15:12	50
Trichlorofluoromethane	<46		220	46	ug/Kg	☼	01/02/14 11:15	01/07/14 15:12	50
Vinyl chloride	<11		28	11	ug/Kg	☼	01/02/14 11:15	01/07/14 15:12	50
Xylenes, Total	**150**		55	7.5	ug/Kg	☼	01/02/14 11:15	01/07/14 15:12	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*75 - 125*	*01/02/14 11:15*	*01/07/14 15:12*	*50*
4-Bromofluorobenzene (Surr)	*99*		*75 - 120*	*01/02/14 11:15*	*01/07/14 15:12*	*50*
Dibromofluoromethane	*102*		*75 - 120*	*01/02/14 11:15*	*01/07/14 15:12*	*50*
Toluene-d8 (Surr)	*105*		*75 - 120*	*01/02/14 11:15*	*01/07/14 15:12*	*50*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<67000		190000	67000	ug/Kg	☼	01/07/14 09:29	01/09/14 13:20	10000
PCB-1221	<84000		190000	84000	ug/Kg	☼	01/07/14 09:29	01/09/14 13:20	10000
PCB-1232	<83000		190000	83000	ug/Kg	☼	01/07/14 09:29	01/09/14 13:20	10000
PCB-1242	**1600000**		190000	63000	ug/Kg	☼	01/07/14 09:29	01/09/14 13:20	10000
PCB-1248	<75000		190000	75000	ug/Kg	☼	01/07/14 09:29	01/09/14 13:20	10000
PCB-1254	<41000		190000	41000	ug/Kg	☼	01/07/14 09:29	01/09/14 13:20	10000
PCB-1260	<94000		190000	94000	ug/Kg	☼	01/07/14 09:29	01/09/14 13:20	10000

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*0*	*D*	*50 - 116*	*01/07/14 09:29*	*01/09/14 13:20*	*10000*
DCB Decachlorobiphenyl	*0*	*D*	*48 - 142*	*01/07/14 09:29*	*01/09/14 13:20*	*10000*

Client Sample ID: B-181 (8.4-10.4)

Lab Sample ID: 500-69547-9
Date Collected: 01/02/14 11:20
Matrix: Solid
Date Received: 01/03/14 10:30
Percent Solids: 93.2

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<28		160	28	ug/Kg	☼	01/02/14 11:20	01/07/14 15:37	50
1,1,1-Trichloroethane	<16		81	16	ug/Kg	☼	01/02/14 11:20	01/07/14 15:37	50
1,1,2,2-Tetrachloroethane	<19		81	19	ug/Kg	☼	01/02/14 11:20	01/07/14 15:37	50
1,1,2-Trichloroethane	<23		81	23	ug/Kg	☼	01/02/14 11:20	01/07/14 15:37	50
1,1-Dichloroethane	<15		81	15	ug/Kg	☼	01/02/14 11:20	01/07/14 15:37	50
1,1-Dichloroethene	<25		81	25	ug/Kg	☼	01/02/14 11:20	01/07/14 15:37	50
1,1-Dichloropropene	<28		81	28	ug/Kg	☼	01/02/14 11:20	01/07/14 15:37	50
1,2,3-Trichlorobenzene	<28		160	28	ug/Kg	☼	01/02/14 11:20	01/07/14 15:37	50
1,2,3-Trichloropropane	<47		160	47	ug/Kg	☼	01/02/14 11:20	01/07/14 15:37	50
1,2,4-Trichlorobenzene	**72**	**J**	160	31	ug/Kg	☼	01/02/14 11:20	01/07/14 15:37	50
1,2,4-Trimethylbenzene	**300**		160	17	ug/Kg	☼	01/02/14 11:20	01/07/14 15:37	50
1,2-Dibromo-3-Chloropropane	<71		160	71	ug/Kg	☼	01/02/14 11:20	01/07/14 15:37	50

Client: ARCADIS U.S., Inc.
Project/Site: MadisonKipp

TestAmerica Job ID: 500-69547-1

Client Sample ID: B-181 (8.4-10.4)
Date Collected: 01/02/14 11:20
Date Received: 01/03/14 10:30

Lab Sample ID: 500-69547-9
Matrix: Solid
Percent Solids: 93.2

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane	<25		160	25	ug/Kg	☼	01/02/14 11:20	01/07/14 15:37	50
1,2-Dichlorobenzene	<17		160	17	ug/Kg	☼	01/02/14 11:20	01/07/14 15:37	50
1,2-Dichloroethane	<23		81	23	ug/Kg	☼	01/02/14 11:20	01/07/14 15:37	50
1,2-Dichloropropane	<16		81	16	ug/Kg	☼	01/02/14 11:20	01/07/14 15:37	50
1,3,5-Trimethylbenzene	**90**	**J**	160	17	ug/Kg	☼	01/02/14 11:20	01/07/14 15:37	50
1,3-Dichlorobenzene	<21		160	21	ug/Kg	☼	01/02/14 11:20	01/07/14 15:37	50
1,3-Dichloropropane	<11		81	11	ug/Kg	☼	01/02/14 11:20	01/07/14 15:37	50
1,4-Dichlorobenzene	<14		160	14	ug/Kg	☼	01/02/14 11:20	01/07/14 15:37	50
2,2-Dichloropropane	<26		81	26	ug/Kg	☼	01/02/14 11:20	01/07/14 15:37	50
2-Chlorotoluene	<17		81	17	ug/Kg	☼	01/02/14 11:20	01/07/14 15:37	50
4-Chlorotoluene	<16		81	16	ug/Kg	☼	01/02/14 11:20	01/07/14 15:37	50
Benzene	<6.0		20	6.0	ug/Kg	☼	01/02/14 11:20	01/07/14 15:37	50
Bromobenzene	<34		160	34	ug/Kg	☼	01/02/14 11:20	01/07/14 15:37	50
Bromochloromethane	<31		160	31	ug/Kg	☼	01/02/14 11:20	01/07/14 15:37	50
Bromodichloromethane	<27		160	27	ug/Kg	☼	01/02/14 11:20	01/07/14 15:37	50
Bromoform	<36		160	36	ug/Kg	☼	01/02/14 11:20	01/07/14 15:37	50
Bromomethane	<55		160	55	ug/Kg	☼	01/02/14 11:20	01/07/14 15:37	50
Carbon tetrachloride	<21		81	21	ug/Kg	☼	01/02/14 11:20	01/07/14 15:37	50
Chlorobenzene	<12		81	12	ug/Kg	☼	01/02/14 11:20	01/07/14 15:37	50
Chloroethane	<35		160	35	ug/Kg	☼	01/02/14 11:20	01/07/14 15:37	50
Chloroform	<17		81	17	ug/Kg	☼	01/02/14 11:20	01/07/14 15:37	50
Chloromethane	<37		160	37	ug/Kg	☼	01/02/14 11:20	01/07/14 15:37	50
cis-1,2-Dichloroethene	**76**	**J**	81	10	ug/Kg	☼	01/02/14 11:20	01/07/14 15:37	50
cis-1,3-Dichloropropene	<14		81	14	ug/Kg	☼	01/02/14 11:20	01/07/14 15:37	50
Dibromochloromethane	<28		160	28	ug/Kg	☼	01/02/14 11:20	01/07/14 15:37	50
Dibromomethane	<39		160	39	ug/Kg	☼	01/02/14 11:20	01/07/14 15:37	50
Dichlorodifluoromethane	<42	*	160	42	ug/Kg	☼	01/02/14 11:20	01/07/14 15:37	50
Ethylbenzene	<10		20	10	ug/Kg	☼	01/02/14 11:20	01/07/14 15:37	50
Hexachlorobutadiene	<28		160	28	ug/Kg	☼	01/02/14 11:20	01/07/14 15:37	50
Isopropyl ether	<12		160	12	ug/Kg	☼	01/02/14 11:20	01/07/14 15:37	50
Isopropylbenzene	<20		160	20	ug/Kg	☼	01/02/14 11:20	01/07/14 15:37	50
Methyl tert-butyl ether	<35		160	35	ug/Kg	☼	01/02/14 11:20	01/07/14 15:37	50
Methylene Chloride	<55		410	55	ug/Kg	☼	01/02/14 11:20	01/07/14 15:37	50
Naphthalene	**59**	**J**	160	40	ug/Kg	☼	01/02/14 11:20	01/07/14 15:37	50
n-Butylbenzene	**76**	**J**	81	10	ug/Kg	☼	01/02/14 11:20	01/07/14 15:37	50
N-Propylbenzene	<14		160	14	ug/Kg	☼	01/02/14 11:20	01/07/14 15:37	50
p-Isopropyltoluene	<15		160	15	ug/Kg	☼	01/02/14 11:20	01/07/14 15:37	50
sec-Butylbenzene	<12		81	12	ug/Kg	☼	01/02/14 11:20	01/07/14 15:37	50
Styrene	<8.0		81	8.0	ug/Kg	☼	01/02/14 11:20	01/07/14 15:37	50
tert-Butylbenzene	<11		81	11	ug/Kg	☼	01/02/14 11:20	01/07/14 15:37	50
Tetrachloroethene	**1100**		81	14	ug/Kg	☼	01/02/14 11:20	01/07/14 15:37	50
Toluene	**60**		20	9.3	ug/Kg	☼	01/02/14 11:20	01/07/14 15:37	50
trans-1,2-Dichloroethene	<20		81	20	ug/Kg	☼	01/02/14 11:20	01/07/14 15:37	50
trans-1,3-Dichloropropene	<17		81	17	ug/Kg	☼	01/02/14 11:20	01/07/14 15:37	50
Trichloroethene	<15		41	15	ug/Kg	☼	01/02/14 11:20	01/07/14 15:37	50
Trichlorofluoromethane	<34		160	34	ug/Kg	☼	01/02/14 11:20	01/07/14 15:37	50
Vinyl chloride	<8.4		20	8.4	ug/Kg	☼	01/02/14 11:20	01/07/14 15:37	50
Xylenes, Total	**53**		41	5.5	ug/Kg	☼	01/02/14 11:20	01/07/14 15:37	50

Client Sample ID: B-181 (8.4-10.4)

Lab Sample ID: 500-69547-9

Date Collected: 01/02/14 11:20
Matrix: Solid
Date Received: 01/03/14 10:30
Percent Solids: 93.2

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		75 - 125	01/02/14 11:20	01/07/14 15:37	50
4-Bromofluorobenzene (Surr)	94		75 - 120	01/02/14 11:20	01/07/14 15:37	50
Dibromofluoromethane	103		75 - 120	01/02/14 11:20	01/07/14 15:37	50
Toluene-d8 (Surr)	107		75 - 120	01/02/14 11:20	01/07/14 15:37	50

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<600		1700	600	ug/Kg	☼	01/07/14 09:29	01/08/14 20:04	100
PCB-1221	<750		1700	750	ug/Kg	☼	01/07/14 09:29	01/08/14 20:04	100
PCB-1232	<740		1700	740	ug/Kg	☼	01/07/14 09:29	01/08/14 20:04	100
PCB-1242	**9100**		1700	560	ug/Kg	☼	01/07/14 09:29	01/08/14 20:04	100
PCB-1248	<670		1700	670	ug/Kg	☼	01/07/14 09:29	01/08/14 20:04	100
PCB-1254	<370		1700	370	ug/Kg	☼	01/07/14 09:29	01/08/14 20:04	100
PCB-1260	<840		1700	840	ug/Kg	☼	01/07/14 09:29	01/08/14 20:04	100

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	0	D	50 - 116	01/07/14 09:29	01/08/14 20:04	100
DCB Decachlorobiphenyl	0	D	48 - 142	01/07/14 09:29	01/08/14 20:04	100

Client Sample ID: B-182 (1.2-3.2)

Lab Sample ID: 500-69547-10

Date Collected: 01/02/14 11:55
Matrix: Solid
Date Received: 01/03/14 10:30
Percent Solids: 83.2

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<34		200	34	ug/Kg	☼	01/02/14 11:55	01/07/14 16:02	50
1,1,1-Trichloroethane	<20		98	20	ug/Kg	☼	01/02/14 11:55	01/07/14 16:02	50
1,1,2,2-Tetrachloroethane	<23		98	23	ug/Kg	☼	01/02/14 11:55	01/07/14 16:02	50
1,1,2-Trichloroethane	<27		98	27	ug/Kg	☼	01/02/14 11:55	01/07/14 16:02	50
1,1-Dichloroethane	<18		98	18	ug/Kg	☼	01/02/14 11:55	01/07/14 16:02	50
1,1-Dichloroethene	<30		98	30	ug/Kg	☼	01/02/14 11:55	01/07/14 16:02	50
1,1-Dichloropropene	<34		98	34	ug/Kg	☼	01/02/14 11:55	01/07/14 16:02	50
1,2,3-Trichlorobenzene	<34		200	34	ug/Kg	☼	01/02/14 11:55	01/07/14 16:02	50
1,2,3-Trichloropropane	<56		200	56	ug/Kg	☼	01/02/14 11:55	01/07/14 16:02	50
1,2,4-Trichlorobenzene	**78**	**J**	200	37	ug/Kg	☼	01/02/14 11:55	01/07/14 16:02	50
1,2,4-Trimethylbenzene	**210**		200	21	ug/Kg	☼	01/02/14 11:55	01/07/14 16:02	50
1,2-Dibromo-3-Chloropropane	<85		200	85	ug/Kg	☼	01/02/14 11:55	01/07/14 16:02	50
1,2-Dibromoethane	<31		200	31	ug/Kg	☼	01/02/14 11:55	01/07/14 16:02	50
1,2-Dichlorobenzene	<20		200	20	ug/Kg	☼	01/02/14 11:55	01/07/14 16:02	50
1,2-Dichloroethane	<28		98	28	ug/Kg	☼	01/02/14 11:55	01/07/14 16:02	50
1,2-Dichloropropane	<19		98	19	ug/Kg	☼	01/02/14 11:55	01/07/14 16:02	50
1,3,5-Trimethylbenzene	**66**	**J**	200	20	ug/Kg	☼	01/02/14 11:55	01/07/14 16:02	50
1,3-Dichlorobenzene	<25		200	25	ug/Kg	☼	01/02/14 11:55	01/07/14 16:02	50
1,3-Dichloropropane	<13		98	13	ug/Kg	☼	01/02/14 11:55	01/07/14 16:02	50
1,4-Dichlorobenzene	<17		200	17	ug/Kg	☼	01/02/14 11:55	01/07/14 16:02	50
2,2-Dichloropropane	<31		98	31	ug/Kg	☼	01/02/14 11:55	01/07/14 16:02	50
2-Chlorotoluene	<20		98	20	ug/Kg	☼	01/02/14 11:55	01/07/14 16:02	50
4-Chlorotoluene	<19		98	19	ug/Kg	☼	01/02/14 11:55	01/07/14 16:02	50
Benzene	<7.2		24	7.2	ug/Kg	☼	01/02/14 11:55	01/07/14 16:02	50
Bromobenzene	<41		200	41	ug/Kg	☼	01/02/14 11:55	01/07/14 16:02	50
Bromochloromethane	<37		200	37	ug/Kg	☼	01/02/14 11:55	01/07/14 16:02	50

Client Sample ID: B-182 (1.2-3.2)
Date Collected: 01/02/14 11:55
Date Received: 01/03/14 10:30

Lab Sample ID: 500-69547-10
Matrix: Solid
Percent Solids: 83.2

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromodichloromethane	<33		200	33	ug/Kg	☼	01/02/14 11:55	01/07/14 16:02	50
Bromoform	<43		200	43	ug/Kg	☼	01/02/14 11:55	01/07/14 16:02	50
Bromomethane	<67		200	67	ug/Kg	☼	01/02/14 11:55	01/07/14 16:02	50
Carbon tetrachloride	<25		98	25	ug/Kg	☼	01/02/14 11:55	01/07/14 16:02	50
Chlorobenzene	<14		98	14	ug/Kg	☼	01/02/14 11:55	01/07/14 16:02	50
Chloroethane	<42		200	42	ug/Kg	☼	01/02/14 11:55	01/07/14 16:02	50
Chloroform	<20		98	20	ug/Kg	☼	01/02/14 11:55	01/07/14 16:02	50
Chloromethane	<45		200	45	ug/Kg	☼	01/02/14 11:55	01/07/14 16:02	50
cis-1,2-Dichloroethene	<12		98	12	ug/Kg	☼	01/02/14 11:55	01/07/14 16:02	50
cis-1,3-Dichloropropene	<17		98	17	ug/Kg	☼	01/02/14 11:55	01/07/14 16:02	50
Dibromochloromethane	<34		200	34	ug/Kg	☼	01/02/14 11:55	01/07/14 16:02	50
Dibromomethane	<47		200	47	ug/Kg	☼	01/02/14 11:55	01/07/14 16:02	50
Dichlorodifluoromethane	<50	*	200	50	ug/Kg	☼	01/02/14 11:55	01/07/14 16:02	50
Ethylbenzene	<12		24	12	ug/Kg	☼	01/02/14 11:55	01/07/14 16:02	50
Hexachlorobutadiene	<34		200	34	ug/Kg	☼	01/02/14 11:55	01/07/14 16:02	50
Isopropyl ether	<14		200	14	ug/Kg	☼	01/02/14 11:55	01/07/14 16:02	50
Isopropylbenzene	**110**	**J**	200	24	ug/Kg	☼	01/02/14 11:55	01/07/14 16:02	50
Methyl tert-butyl ether	<42		200	42	ug/Kg	☼	01/02/14 11:55	01/07/14 16:02	50
Methylene Chloride	<67		490	67	ug/Kg	☼	01/02/14 11:55	01/07/14 16:02	50
Naphthalene	<48		200	48	ug/Kg	☼	01/02/14 11:55	01/07/14 16:02	50
n-Butylbenzene	<13		98	13	ug/Kg	☼	01/02/14 11:55	01/07/14 16:02	50
N-Propylbenzene	<17		200	17	ug/Kg	☼	01/02/14 11:55	01/07/14 16:02	50
p-Isopropyltoluene	<18		200	18	ug/Kg	☼	01/02/14 11:55	01/07/14 16:02	50
sec-Butylbenzene	<15		98	15	ug/Kg	☼	01/02/14 11:55	01/07/14 16:02	50
Styrene	<9.6		98	9.6	ug/Kg	☼	01/02/14 11:55	01/07/14 16:02	50
tert-Butylbenzene	<13		98	13	ug/Kg	☼	01/02/14 11:55	01/07/14 16:02	50
Tetrachloroethene	**56**	**J**	98	16	ug/Kg	☼	01/02/14 11:55	01/07/14 16:02	50
Toluene	<11		24	11	ug/Kg	☼	01/02/14 11:55	01/07/14 16:02	50
trans-1,2-Dichloroethene	<24		98	24	ug/Kg	☼	01/02/14 11:55	01/07/14 16:02	50
trans-1,3-Dichloropropene	<20		98	20	ug/Kg	☼	01/02/14 11:55	01/07/14 16:02	50
Trichloroethene	<18		49	18	ug/Kg	☼	01/02/14 11:55	01/07/14 16:02	50
Trichlorofluoromethane	<40		200	40	ug/Kg	☼	01/02/14 11:55	01/07/14 16:02	50
Vinyl chloride	<10		24	10	ug/Kg	☼	01/02/14 11:55	01/07/14 16:02	50
Xylenes, Total	**52**		49	6.7	ug/Kg	☼	01/02/14 11:55	01/07/14 16:02	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*97*		*75 - 125*	*01/02/14 11:55*	*01/07/14 16:02*	*50*
4-Bromofluorobenzene (Surr)	*97*		*75 - 120*	*01/02/14 11:55*	*01/07/14 16:02*	*50*
Dibromofluoromethane	*102*		*75 - 120*	*01/02/14 11:55*	*01/07/14 16:02*	*50*
Toluene-d8 (Surr)	*107*		*75 - 120*	*01/02/14 11:55*	*01/07/14 16:02*	*50*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<140		400	140	ug/Kg	☼	01/07/14 09:29	01/08/14 12:49	20
PCB-1221	<180		400	180	ug/Kg	☼	01/07/14 09:29	01/08/14 12:49	20
PCB-1232	<170		400	170	ug/Kg	☼	01/07/14 09:29	01/08/14 12:49	20
PCB-1242	**1400**		400	130	ug/Kg	☼	01/07/14 09:29	01/08/14 12:49	20
PCB-1248	<160		400	160	ug/Kg	☼	01/07/14 09:29	01/08/14 12:49	20
PCB-1254	<86		400	86	ug/Kg	☼	01/07/14 09:29	01/08/14 12:49	20
PCB-1260	<200		400	200	ug/Kg	☼	01/07/14 09:29	01/08/14 12:49	20

Client Sample ID: B-182 (1.2-3.2) — **Lab Sample ID: 500-69547-10**
Date Collected: 01/02/14 11:55 — **Matrix: Solid**
Date Received: 01/03/14 10:30 — **Percent Solids: 83.2**

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	*0*	*D*	*50 - 116*	*01/07/14 09:29*	*01/08/14 12:49*	*20*
DCB Decachlorobiphenyl	*0*	*D*	*48 - 142*	*01/07/14 09:29*	*01/08/14 12:49*	*20*

Client Sample ID: B-158 (8-9) — **Lab Sample ID: 500-69547-11**
Date Collected: 12/30/13 11:00 — **Matrix: Solid**
Date Received: 01/03/14 10:30 — **Percent Solids: 96.7**

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<31		180	31	ug/Kg	☼	12/30/13 11:00	01/07/14 16:26	50
1,1,1-Trichloroethane	<18		91	18	ug/Kg	☼	12/30/13 11:00	01/07/14 16:26	50
1,1,2,2-Tetrachloroethane	<21		91	21	ug/Kg	☼	12/30/13 11:00	01/07/14 16:26	50
1,1,2-Trichloroethane	<25		91	25	ug/Kg	☼	12/30/13 11:00	01/07/14 16:26	50
1,1-Dichloroethane	<17		91	17	ug/Kg	☼	12/30/13 11:00	01/07/14 16:26	50
1,1-Dichloroethene	<28		91	28	ug/Kg	☼	12/30/13 11:00	01/07/14 16:26	50
1,1-Dichloropropene	<31		91	31	ug/Kg	☼	12/30/13 11:00	01/07/14 16:26	50
1,2,3-Trichlorobenzene	<32		180	32	ug/Kg	☼	12/30/13 11:00	01/07/14 16:26	50
1,2,3-Trichloropropane	<52		180	52	ug/Kg	☼	12/30/13 11:00	01/07/14 16:26	50
1,2,4-Trichlorobenzene	**83**	**J**	180	34	ug/Kg	☼	12/30/13 11:00	01/07/14 16:26	50
1,2,4-Trimethylbenzene	**190**		180	19	ug/Kg	☼	12/30/13 11:00	01/07/14 16:26	50
1,2-Dibromo-3-Chloropropane	<79		180	79	ug/Kg	☼	12/30/13 11:00	01/07/14 16:26	50
1,2-Dibromoethane	<28		180	28	ug/Kg	☼	12/30/13 11:00	01/07/14 16:26	50
1,2-Dichlorobenzene	<19		180	19	ug/Kg	☼	12/30/13 11:00	01/07/14 16:26	50
1,2-Dichloroethane	<26		91	26	ug/Kg	☼	12/30/13 11:00	01/07/14 16:26	50
1,2-Dichloropropane	<18		91	18	ug/Kg	☼	12/30/13 11:00	01/07/14 16:26	50
1,3,5-Trimethylbenzene	**55**	**J**	180	19	ug/Kg	☼	12/30/13 11:00	01/07/14 16:26	50
1,3-Dichlorobenzene	<23		180	23	ug/Kg	☼	12/30/13 11:00	01/07/14 16:26	50
1,3-Dichloropropane	<12		91	12	ug/Kg	☼	12/30/13 11:00	01/07/14 16:26	50
1,4-Dichlorobenzene	<16		180	16	ug/Kg	☼	12/30/13 11:00	01/07/14 16:26	50
2,2-Dichloropropane	<29		91	29	ug/Kg	☼	12/30/13 11:00	01/07/14 16:26	50
2-Chlorotoluene	<19		91	19	ug/Kg	☼	12/30/13 11:00	01/07/14 16:26	50
4-Chlorotoluene	<18		91	18	ug/Kg	☼	12/30/13 11:00	01/07/14 16:26	50
Benzene	<6.7		23	6.7	ug/Kg	☼	12/30/13 11:00	01/07/14 16:26	50
Bromobenzene	<39		180	39	ug/Kg	☼	12/30/13 11:00	01/07/14 16:26	50
Bromochloromethane	<34		180	34	ug/Kg	☼	12/30/13 11:00	01/07/14 16:26	50
Bromodichloromethane	<31		180	31	ug/Kg	☼	12/30/13 11:00	01/07/14 16:26	50
Bromoform	<40		180	40	ug/Kg	☼	12/30/13 11:00	01/07/14 16:26	50
Bromomethane	<62		180	62	ug/Kg	☼	12/30/13 11:00	01/07/14 16:26	50
Carbon tetrachloride	<23		91	23	ug/Kg	☼	12/30/13 11:00	01/07/14 16:26	50
Chlorobenzene	<13		91	13	ug/Kg	☼	12/30/13 11:00	01/07/14 16:26	50
Chloroethane	<39		180	39	ug/Kg	☼	12/30/13 11:00	01/07/14 16:26	50
Chloroform	<19		91	19	ug/Kg	☼	12/30/13 11:00	01/07/14 16:26	50
Chloromethane	<42		180	42	ug/Kg	☼	12/30/13 11:00	01/07/14 16:26	50
cis-1,2-Dichloroethene	<11		91	11	ug/Kg	☼	12/30/13 11:00	01/07/14 16:26	50
cis-1,3-Dichloropropene	<16		91	16	ug/Kg	☼	12/30/13 11:00	01/07/14 16:26	50
Dibromochloromethane	<31		180	31	ug/Kg	☼	12/30/13 11:00	01/07/14 16:26	50
Dibromomethane	<44		180	44	ug/Kg	☼	12/30/13 11:00	01/07/14 16:26	50
Dichlorodifluoromethane	<47	*	180	47	ug/Kg	☼	12/30/13 11:00	01/07/14 16:26	50
Ethylbenzene	<11		23	11	ug/Kg	☼	12/30/13 11:00	01/07/14 16:26	50
Hexachlorobutadiene	<31		180	31	ug/Kg	☼	12/30/13 11:00	01/07/14 16:26	50

Client Sample ID: B-158 (8-9)

Lab Sample ID: 500-69547-11

Date Collected: 12/30/13 11:00
Matrix: Solid
Date Received: 01/03/14 10:30
Percent Solids: 96.7

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isopropyl ether	<13		180	13	ug/Kg	☼	12/30/13 11:00	01/07/14 16:26	50
Isopropylbenzene	**280**		180	23	ug/Kg	☼	12/30/13 11:00	01/07/14 16:26	50
Methyl tert-butyl ether	<39		180	39	ug/Kg	☼	12/30/13 11:00	01/07/14 16:26	50
Methylene Chloride	<62		450	62	ug/Kg	☼	12/30/13 11:00	01/07/14 16:26	50
Naphthalene	<45		180	45	ug/Kg	☼	12/30/13 11:00	01/07/14 16:26	50
n-Butylbenzene	<12		91	12	ug/Kg	☼	12/30/13 11:00	01/07/14 16:26	50
N-Propylbenzene	<16		180	16	ug/Kg	☼	12/30/13 11:00	01/07/14 16:26	50
p-Isopropyltoluene	<17		180	17	ug/Kg	☼	12/30/13 11:00	01/07/14 16:26	50
sec-Butylbenzene	<14		91	14	ug/Kg	☼	12/30/13 11:00	01/07/14 16:26	50
Styrene	<9.0		91	9.0	ug/Kg	☼	12/30/13 11:00	01/07/14 16:26	50
tert-Butylbenzene	<12		91	12	ug/Kg	☼	12/30/13 11:00	01/07/14 16:26	50
Tetrachloroethene	**55**	**J**	91	15	ug/Kg	☼	12/30/13 11:00	01/07/14 16:26	50
Toluene	<10		23	10	ug/Kg	☼	12/30/13 11:00	01/07/14 16:26	50
trans-1,2-Dichloroethene	<23		91	23	ug/Kg	☼	12/30/13 11:00	01/07/14 16:26	50
trans-1,3-Dichloropropene	<19		91	19	ug/Kg	☼	12/30/13 11:00	01/07/14 16:26	50
Trichloroethene	<17		45	17	ug/Kg	☼	12/30/13 11:00	01/07/14 16:26	50
Trichlorofluoromethane	<38		180	38	ug/Kg	☼	12/30/13 11:00	01/07/14 16:26	50
Vinyl chloride	<9.4		23	9.4	ug/Kg	☼	12/30/13 11:00	01/07/14 16:26	50
Xylenes, Total	<6.2		45	6.2	ug/Kg	☼	12/30/13 11:00	01/07/14 16:26	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*75 - 125*	*12/30/13 11:00*	*01/07/14 16:26*	*50*
4-Bromofluorobenzene (Surr)	*96*		*75 - 120*	*12/30/13 11:00*	*01/07/14 16:26*	*50*
Dibromofluoromethane	*101*		*75 - 120*	*12/30/13 11:00*	*01/07/14 16:26*	*50*
Toluene-d8 (Surr)	*106*		*75 - 120*	*12/30/13 11:00*	*01/07/14 16:26*	*50*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<12000		34000	12000	ug/Kg	☼	01/07/14 09:29	01/09/14 13:33	2000
PCB-1221	<15000		34000	15000	ug/Kg	☼	01/07/14 09:29	01/09/14 13:33	2000
PCB-1232	<15000		34000	15000	ug/Kg	☼	01/07/14 09:29	01/09/14 13:33	2000
PCB-1242	**340000**		34000	11000	ug/Kg	☼	01/07/14 09:29	01/09/14 13:33	2000
PCB-1248	<13000		34000	13000	ug/Kg	☼	01/07/14 09:29	01/09/14 13:33	2000
PCB-1254	<7300		34000	7300	ug/Kg	☼	01/07/14 09:29	01/09/14 13:33	2000
PCB-1260	<17000		34000	17000	ug/Kg	☼	01/07/14 09:29	01/09/14 13:33	2000

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*0*	*D*	*50 - 116*	*01/07/14 09:29*	*01/09/14 13:33*	*2000*
DCB Decachlorobiphenyl	*0*	*D*	*48 - 142*	*01/07/14 09:29*	*01/09/14 13:33*	*2000*

Client Sample ID: B-158 (10-12)

Lab Sample ID: 500-69547-12

Date Collected: 12/30/13 11:30
Matrix: Solid
Date Received: 01/03/14 10:30
Percent Solids: 93.8

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<34		190	34	ug/Kg	☼	12/30/13 11:30	01/07/14 16:50	50
1,1,1-Trichloroethane	<20		97	20	ug/Kg	☼	12/30/13 11:30	01/07/14 16:50	50
1,1,2,2-Tetrachloroethane	<23		97	23	ug/Kg	☼	12/30/13 11:30	01/07/14 16:50	50
1,1,2-Trichloroethane	<27		97	27	ug/Kg	☼	12/30/13 11:30	01/07/14 16:50	50

Client: ARCADIS U.S., Inc.
Project/Site: MadisonKipp

TestAmerica Job ID: 500-69547-1

Client Sample ID: B-158 (10-12)
Date Collected: 12/30/13 11:30
Date Received: 01/03/14 10:30

Lab Sample ID: 500-69547-12
Matrix: Solid
Percent Solids: 93.8

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	<18		97	18	ug/Kg	☼	12/30/13 11:30	01/07/14 16:50	50
1,1-Dichloroethene	<30		97	30	ug/Kg	☼	12/30/13 11:30	01/07/14 16:50	50
1,1-Dichloropropene	<33		97	33	ug/Kg	☼	12/30/13 11:30	01/07/14 16:50	50
1,2,3-Trichlorobenzene	<34		190	34	ug/Kg	☼	12/30/13 11:30	01/07/14 16:50	50
1,2,3-Trichloropropane	<56		190	56	ug/Kg	☼	12/30/13 11:30	01/07/14 16:50	50
1,2,4-Trichlorobenzene	<37		190	37	ug/Kg	☼	12/30/13 11:30	01/07/14 16:50	50
1,2,4-Trimethylbenzene	**290**		190	21	ug/Kg	☼	12/30/13 11:30	01/07/14 16:50	50
1,2-Dibromo-3-Chloropropane	<85		190	85	ug/Kg	☼	12/30/13 11:30	01/07/14 16:50	50
1,2-Dibromoethane	<31		190	31	ug/Kg	☼	12/30/13 11:30	01/07/14 16:50	50
1,2-Dichlorobenzene	<20		190	20	ug/Kg	☼	12/30/13 11:30	01/07/14 16:50	50
1,2-Dichloroethane	<28		97	28	ug/Kg	☼	12/30/13 11:30	01/07/14 16:50	50
1,2-Dichloropropane	<19		97	19	ug/Kg	☼	12/30/13 11:30	01/07/14 16:50	50
1,3,5-Trimethylbenzene	**86**	**J**	190	20	ug/Kg	☼	12/30/13 11:30	01/07/14 16:50	50
1,3-Dichlorobenzene	<25		190	25	ug/Kg	☼	12/30/13 11:30	01/07/14 16:50	50
1,3-Dichloropropane	<13		97	13	ug/Kg	☼	12/30/13 11:30	01/07/14 16:50	50
1,4-Dichlorobenzene	<17		190	17	ug/Kg	☼	12/30/13 11:30	01/07/14 16:50	50
2,2-Dichloropropane	<31		97	31	ug/Kg	☼	12/30/13 11:30	01/07/14 16:50	50
2-Chlorotoluene	<20		97	20	ug/Kg	☼	12/30/13 11:30	01/07/14 16:50	50
4-Chlorotoluene	<19		97	19	ug/Kg	☼	12/30/13 11:30	01/07/14 16:50	50
Benzene	<7.2		24	7.2	ug/Kg	☼	12/30/13 11:30	01/07/14 16:50	50
Bromobenzene	<41		190	41	ug/Kg	☼	12/30/13 11:30	01/07/14 16:50	50
Bromochloromethane	<37		190	37	ug/Kg	☼	12/30/13 11:30	01/07/14 16:50	50
Bromodichloromethane	<33		190	33	ug/Kg	☼	12/30/13 11:30	01/07/14 16:50	50
Bromoform	<43		190	43	ug/Kg	☼	12/30/13 11:30	01/07/14 16:50	50
Bromomethane	<66		190	66	ug/Kg	☼	12/30/13 11:30	01/07/14 16:50	50
Carbon tetrachloride	<25		97	25	ug/Kg	☼	12/30/13 11:30	01/07/14 16:50	50
Chlorobenzene	<14		97	14	ug/Kg	☼	12/30/13 11:30	01/07/14 16:50	50
Chloroethane	<42		190	42	ug/Kg	☼	12/30/13 11:30	01/07/14 16:50	50
Chloroform	<20		97	20	ug/Kg	☼	12/30/13 11:30	01/07/14 16:50	50
Chloromethane	<45		190	45	ug/Kg	☼	12/30/13 11:30	01/07/14 16:50	50
cis-1,2-Dichloroethene	**71**	**J**	97	12	ug/Kg	☼	12/30/13 11:30	01/07/14 16:50	50
cis-1,3-Dichloropropene	<17		97	17	ug/Kg	☼	12/30/13 11:30	01/07/14 16:50	50
Dibromochloromethane	<34		190	34	ug/Kg	☼	12/30/13 11:30	01/07/14 16:50	50
Dibromomethane	<47		190	47	ug/Kg	☼	12/30/13 11:30	01/07/14 16:50	50
Dichlorodifluoromethane	<50	*	190	50	ug/Kg	☼	12/30/13 11:30	01/07/14 16:50	50
Ethylbenzene	<12		24	12	ug/Kg	☼	12/30/13 11:30	01/07/14 16:50	50
Hexachlorobutadiene	<34		190	34	ug/Kg	☼	12/30/13 11:30	01/07/14 16:50	50
Isopropyl ether	<14		190	14	ug/Kg	☼	12/30/13 11:30	01/07/14 16:50	50
Isopropylbenzene	**260**		190	24	ug/Kg	☼	12/30/13 11:30	01/07/14 16:50	50
Methyl tert-butyl ether	<42		190	42	ug/Kg	☼	12/30/13 11:30	01/07/14 16:50	50
Methylene Chloride	<66		490	66	ug/Kg	☼	12/30/13 11:30	01/07/14 16:50	50
Naphthalene	<48		190	48	ug/Kg	☼	12/30/13 11:30	01/07/14 16:50	50
n-Butylbenzene	**71**	**J**	97	13	ug/Kg	☼	12/30/13 11:30	01/07/14 16:50	50
N-Propylbenzene	<17		190	17	ug/Kg	☼	12/30/13 11:30	01/07/14 16:50	50
p-Isopropyltoluene	<18		190	18	ug/Kg	☼	12/30/13 11:30	01/07/14 16:50	50
sec-Butylbenzene	<15		97	15	ug/Kg	☼	12/30/13 11:30	01/07/14 16:50	50
Styrene	<9.6		97	9.6	ug/Kg	☼	12/30/13 11:30	01/07/14 16:50	50
tert-Butylbenzene	<13		97	13	ug/Kg	☼	12/30/13 11:30	01/07/14 16:50	50
Tetrachloroethene	**960**		97	16	ug/Kg	☼	12/30/13 11:30	01/07/14 16:50	50

Client Sample ID: B-158 (10-12)

Lab Sample ID: 500-69547-12

Date Collected: 12/30/13 11:30
Matrix: Solid
Date Received: 01/03/14 10:30
Percent Solids: 93.8

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	**24**		24	11	ug/Kg	☼	12/30/13 11:30	01/07/14 16:50	50
trans-1,2-Dichloroethene	<24		97	24	ug/Kg	☼	12/30/13 11:30	01/07/14 16:50	50
trans-1,3-Dichloropropene	<20		97	20	ug/Kg	☼	12/30/13 11:30	01/07/14 16:50	50
Trichloroethene	<18		49	18	ug/Kg	☼	12/30/13 11:30	01/07/14 16:50	50
Trichlorofluoromethane	<40		190	40	ug/Kg	☼	12/30/13 11:30	01/07/14 16:50	50
Vinyl chloride	<10		24	10	ug/Kg	☼	12/30/13 11:30	01/07/14 16:50	50
Xylenes, Total	**84**		49	6.7	ug/Kg	☼	12/30/13 11:30	01/07/14 16:50	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*75 - 125*	*12/30/13 11:30*	*01/07/14 16:50*	*50*
4-Bromofluorobenzene (Surr)	*97*		*75 - 120*	*12/30/13 11:30*	*01/07/14 16:50*	*50*
Dibromofluoromethane	*99*		*75 - 120*	*12/30/13 11:30*	*01/07/14 16:50*	*50*
Toluene-d8 (Surr)	*106*		*75 - 120*	*12/30/13 11:30*	*01/07/14 16:50*	*50*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<3000		8600	3000	ug/Kg	☼	01/07/14 09:29	01/08/14 20:32	500
PCB-1221	<3800		8600	3800	ug/Kg	☼	01/07/14 09:29	01/08/14 20:32	500
PCB-1232	<3700		8600	3700	ug/Kg	☼	01/07/14 09:29	01/08/14 20:32	500
PCB-1242	**170000**		8600	2800	ug/Kg	☼	01/07/14 09:29	01/08/14 20:32	500
PCB-1248	<3400		8600	3400	ug/Kg	☼	01/07/14 09:29	01/08/14 20:32	500
PCB-1254	<1900		8600	1900	ug/Kg	☼	01/07/14 09:29	01/08/14 20:32	500
PCB-1260	<4200		8600	4200	ug/Kg	☼	01/07/14 09:29	01/08/14 20:32	500

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*0*	*D*	*50 - 116*	*01/07/14 09:29*	*01/08/14 20:32*	*500*
DCB Decachlorobiphenyl	*0*	*D*	*48 - 142*	*01/07/14 09:29*	*01/08/14 20:32*	*500*

Client Sample ID: B-175 (2-4)

Lab Sample ID: 500-69547-13

Date Collected: 12/30/13 14:00
Matrix: Solid
Date Received: 01/03/14 10:30
Percent Solids: 81.4

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<35		200	35	ug/Kg	☼	12/30/13 14:00	01/07/14 17:14	50
1,1,1-Trichloroethane	<20		100	20	ug/Kg	☼	12/30/13 14:00	01/07/14 17:14	50
1,1,2,2-Tetrachloroethane	<23		100	23	ug/Kg	☼	12/30/13 14:00	01/07/14 17:14	50
1,1,2-Trichloroethane	<28		100	28	ug/Kg	☼	12/30/13 14:00	01/07/14 17:14	50
1,1-Dichloroethane	<19		100	19	ug/Kg	☼	12/30/13 14:00	01/07/14 17:14	50
1,1-Dichloroethene	<31		100	31	ug/Kg	☼	12/30/13 14:00	01/07/14 17:14	50
1,1-Dichloropropene	<34		100	34	ug/Kg	☼	12/30/13 14:00	01/07/14 17:14	50
1,2,3-Trichlorobenzene	<35		200	35	ug/Kg	☼	12/30/13 14:00	01/07/14 17:14	50
1,2,3-Trichloropropane	<58		200	58	ug/Kg	☼	12/30/13 14:00	01/07/14 17:14	50
1,2,4-Trichlorobenzene	<38		200	38	ug/Kg	☼	12/30/13 14:00	01/07/14 17:14	50
1,2,4-Trimethylbenzene	<21		200	21	ug/Kg	☼	12/30/13 14:00	01/07/14 17:14	50
1,2-Dibromo-3-Chloropropane	<87		200	87	ug/Kg	☼	12/30/13 14:00	01/07/14 17:14	50
1,2-Dibromoethane	<31		200	31	ug/Kg	☼	12/30/13 14:00	01/07/14 17:14	50
1,2-Dichlorobenzene	<21		200	21	ug/Kg	☼	12/30/13 14:00	01/07/14 17:14	50
1,2-Dichloroethane	<29		100	29	ug/Kg	☼	12/30/13 14:00	01/07/14 17:14	50
1,2-Dichloropropane	<20		100	20	ug/Kg	☼	12/30/13 14:00	01/07/14 17:14	50

Client: ARCADIS U.S., Inc.
Project/Site: MadisonKipp

TestAmerica Job ID: 500-69547-1

Client Sample ID: B-175 (2-4)
Date Collected: 12/30/13 14:00
Date Received: 01/03/14 10:30

Lab Sample ID: 500-69547-13
Matrix: Solid
Percent Solids: 81.4

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3,5-Trimethylbenzene	<21		200	21	ug/Kg	☼	12/30/13 14:00	01/07/14 17:14	50
1,3-Dichlorobenzene	<26		200	26	ug/Kg	☼	12/30/13 14:00	01/07/14 17:14	50
1,3-Dichloropropane	<13		100	13	ug/Kg	☼	12/30/13 14:00	01/07/14 17:14	50
1,4-Dichlorobenzene	<17		200	17	ug/Kg	☼	12/30/13 14:00	01/07/14 17:14	50
2,2-Dichloropropane	<32		100	32	ug/Kg	☼	12/30/13 14:00	01/07/14 17:14	50
2-Chlorotoluene	<21		100	21	ug/Kg	☼	12/30/13 14:00	01/07/14 17:14	50
4-Chlorotoluene	<20		100	20	ug/Kg	☼	12/30/13 14:00	01/07/14 17:14	50
Benzene	<7.4		25	7.4	ug/Kg	☼	12/30/13 14:00	01/07/14 17:14	50
Bromobenzene	<43		200	43	ug/Kg	☼	12/30/13 14:00	01/07/14 17:14	50
Bromochloromethane	<38		200	38	ug/Kg	☼	12/30/13 14:00	01/07/14 17:14	50
Bromodichloromethane	<34		200	34	ug/Kg	☼	12/30/13 14:00	01/07/14 17:14	50
Bromoform	<44		200	44	ug/Kg	☼	12/30/13 14:00	01/07/14 17:14	50
Bromomethane	<68		200	68	ug/Kg	☼	12/30/13 14:00	01/07/14 17:14	50
Carbon tetrachloride	<26		100	26	ug/Kg	☼	12/30/13 14:00	01/07/14 17:14	50
Chlorobenzene	<14		100	14	ug/Kg	☼	12/30/13 14:00	01/07/14 17:14	50
Chloroethane	<44		200	44	ug/Kg	☼	12/30/13 14:00	01/07/14 17:14	50
Chloroform	<21		100	21	ug/Kg	☼	12/30/13 14:00	01/07/14 17:14	50
Chloromethane	<46		200	46	ug/Kg	☼	12/30/13 14:00	01/07/14 17:14	50
cis-1,2-Dichloroethene	<12		100	12	ug/Kg	☼	12/30/13 14:00	01/07/14 17:14	50
cis-1,3-Dichloropropene	<18		100	18	ug/Kg	☼	12/30/13 14:00	01/07/14 17:14	50
Dibromochloromethane	<35		200	35	ug/Kg	☼	12/30/13 14:00	01/07/14 17:14	50
Dibromomethane	<48		200	48	ug/Kg	☼	12/30/13 14:00	01/07/14 17:14	50
Dichlorodifluoromethane	<51	*	200	51	ug/Kg	☼	12/30/13 14:00	01/07/14 17:14	50
Ethylbenzene	<13		25	13	ug/Kg	☼	12/30/13 14:00	01/07/14 17:14	50
Hexachlorobutadiene	<35		200	35	ug/Kg	☼	12/30/13 14:00	01/07/14 17:14	50
Isopropyl ether	<15		200	15	ug/Kg	☼	12/30/13 14:00	01/07/14 17:14	50
Isopropylbenzene	<25		200	25	ug/Kg	☼	12/30/13 14:00	01/07/14 17:14	50
Methyl tert-butyl ether	<43		200	43	ug/Kg	☼	12/30/13 14:00	01/07/14 17:14	50
Methylene Chloride	<68		500	68	ug/Kg	☼	12/30/13 14:00	01/07/14 17:14	50
Naphthalene	<50		200	50	ug/Kg	☼	12/30/13 14:00	01/07/14 17:14	50
n-Butylbenzene	<13		100	13	ug/Kg	☼	12/30/13 14:00	01/07/14 17:14	50
N-Propylbenzene	<18		200	18	ug/Kg	☼	12/30/13 14:00	01/07/14 17:14	50
p-Isopropyltoluene	<19		200	19	ug/Kg	☼	12/30/13 14:00	01/07/14 17:14	50
sec-Butylbenzene	<15		100	15	ug/Kg	☼	12/30/13 14:00	01/07/14 17:14	50
Styrene	<9.9		100	9.9	ug/Kg	☼	12/30/13 14:00	01/07/14 17:14	50
tert-Butylbenzene	<14		100	14	ug/Kg	☼	12/30/13 14:00	01/07/14 17:14	50
Tetrachloroethene	<17		100	17	ug/Kg	☼	12/30/13 14:00	01/07/14 17:14	50
Toluene	<12		25	12	ug/Kg	☼	12/30/13 14:00	01/07/14 17:14	50
trans-1,2-Dichloroethene	<25		100	25	ug/Kg	☼	12/30/13 14:00	01/07/14 17:14	50
trans-1,3-Dichloropropene	<21		100	21	ug/Kg	☼	12/30/13 14:00	01/07/14 17:14	50
Trichloroethene	<19		50	19	ug/Kg	☼	12/30/13 14:00	01/07/14 17:14	50
Trichlorofluoromethane	<42		200	42	ug/Kg	☼	12/30/13 14:00	01/07/14 17:14	50
Vinyl chloride	<10		25	10	ug/Kg	☼	12/30/13 14:00	01/07/14 17:14	50
Xylenes, Total	<6.9		50	6.9	ug/Kg	☼	12/30/13 14:00	01/07/14 17:14	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*98*		*75 - 125*	*12/30/13 14:00*	*01/07/14 17:14*	*50*
4-Bromofluorobenzene (Surr)	*92*		*75 - 120*	*12/30/13 14:00*	*01/07/14 17:14*	*50*
Dibromofluoromethane	*101*		*75 - 120*	*12/30/13 14:00*	*01/07/14 17:14*	*50*
Toluene-d8 (Surr)	*105*		*75 - 120*	*12/30/13 14:00*	*01/07/14 17:14*	*50*

Client: ARCADIS U.S., Inc.
Project/Site: MadisonKipp

TestAmerica Job ID: 500-69547-1

Client Sample ID: B-175 (2-4)

Lab Sample ID: 500-69547-13

Date Collected: 12/30/13 14:00
Matrix: Solid
Date Received: 01/03/14 10:30
Percent Solids: 81.4

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<7.2		20	7.2	ug/Kg	☼	01/07/14 09:29	01/08/14 13:30	1
PCB-1221	<9.0		20	9.0	ug/Kg	☼	01/07/14 09:29	01/08/14 13:30	1
PCB-1232	<8.9		20	8.9	ug/Kg	☼	01/07/14 09:29	01/08/14 13:30	1
PCB-1242	**51**		20	6.7	ug/Kg	☼	01/07/14 09:29	01/08/14 13:30	1
PCB-1248	<8.1		20	8.1	ug/Kg	☼	01/07/14 09:29	01/08/14 13:30	1
PCB-1254	<4.4		20	4.4	ug/Kg	☼	01/07/14 09:29	01/08/14 13:30	1
PCB-1260	<10		20	10	ug/Kg	☼	01/07/14 09:29	01/08/14 13:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*69*		*50 - 116*	*01/07/14 09:29*	*01/08/14 13:30*	*1*
DCB Decachlorobiphenyl	*91*		*48 - 142*	*01/07/14 09:29*	*01/08/14 13:30*	*1*

Client Sample ID: B-175 (14-16)

Lab Sample ID: 500-69547-14

Date Collected: 12/30/13 14:15
Matrix: Solid
Date Received: 01/03/14 10:30
Percent Solids: 94.7

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<30		170	30	ug/Kg	☼	12/30/13 14:15	01/07/14 17:39	50
1,1,1-Trichloroethane	<17		86	17	ug/Kg	☼	12/30/13 14:15	01/07/14 17:39	50
1,1,2,2-Tetrachloroethane	<20		86	20	ug/Kg	☼	12/30/13 14:15	01/07/14 17:39	50
1,1,2-Trichloroethane	<24		86	24	ug/Kg	☼	12/30/13 14:15	01/07/14 17:39	50
1,1-Dichloroethane	<16		86	16	ug/Kg	☼	12/30/13 14:15	01/07/14 17:39	50
1,1-Dichloroethene	<26		86	26	ug/Kg	☼	12/30/13 14:15	01/07/14 17:39	50
1,1-Dichloropropene	<30		86	30	ug/Kg	☼	12/30/13 14:15	01/07/14 17:39	50
1,2,3-Trichlorobenzene	<30		170	30	ug/Kg	☼	12/30/13 14:15	01/07/14 17:39	50
1,2,3-Trichloropropane	<49		170	49	ug/Kg	☼	12/30/13 14:15	01/07/14 17:39	50
1,2,4-Trichlorobenzene	<33		170	33	ug/Kg	☼	12/30/13 14:15	01/07/14 17:39	50
1,2,4-Trimethylbenzene	<18		170	18	ug/Kg	☼	12/30/13 14:15	01/07/14 17:39	50
1,2-Dibromo-3-Chloropropane	<75		170	75	ug/Kg	☼	12/30/13 14:15	01/07/14 17:39	50
1,2-Dibromoethane	<27		170	27	ug/Kg	☼	12/30/13 14:15	01/07/14 17:39	50
1,2-Dichlorobenzene	<18		170	18	ug/Kg	☼	12/30/13 14:15	01/07/14 17:39	50
1,2-Dichloroethane	<25		86	25	ug/Kg	☼	12/30/13 14:15	01/07/14 17:39	50
1,2-Dichloropropane	<17		86	17	ug/Kg	☼	12/30/13 14:15	01/07/14 17:39	50
1,3,5-Trimethylbenzene	<18		170	18	ug/Kg	☼	12/30/13 14:15	01/07/14 17:39	50
1,3-Dichlorobenzene	<22		170	22	ug/Kg	☼	12/30/13 14:15	01/07/14 17:39	50
1,3-Dichloropropane	<12		86	12	ug/Kg	☼	12/30/13 14:15	01/07/14 17:39	50
1,4-Dichlorobenzene	<15		170	15	ug/Kg	☼	12/30/13 14:15	01/07/14 17:39	50
2,2-Dichloropropane	<27		86	27	ug/Kg	☼	12/30/13 14:15	01/07/14 17:39	50
2-Chlorotoluene	<18		86	18	ug/Kg	☼	12/30/13 14:15	01/07/14 17:39	50
4-Chlorotoluene	<17		86	17	ug/Kg	☼	12/30/13 14:15	01/07/14 17:39	50
Benzene	<6.4		22	6.4	ug/Kg	☼	12/30/13 14:15	01/07/14 17:39	50
Bromobenzene	<37		170	37	ug/Kg	☼	12/30/13 14:15	01/07/14 17:39	50
Bromochloromethane	<33		170	33	ug/Kg	☼	12/30/13 14:15	01/07/14 17:39	50
Bromodichloromethane	<29		170	29	ug/Kg	☼	12/30/13 14:15	01/07/14 17:39	50
Bromoform	<38		170	38	ug/Kg	☼	12/30/13 14:15	01/07/14 17:39	50
Bromomethane	<59		170	59	ug/Kg	☼	12/30/13 14:15	01/07/14 17:39	50
Carbon tetrachloride	<22		86	22	ug/Kg	☼	12/30/13 14:15	01/07/14 17:39	50
Chlorobenzene	<12		86	12	ug/Kg	☼	12/30/13 14:15	01/07/14 17:39	50
Chloroethane	<37		170	37	ug/Kg	☼	12/30/13 14:15	01/07/14 17:39	50

Client Sample ID: B-175 (14-16)
Date Collected: 12/30/13 14:15
Date Received: 01/03/14 10:30

Lab Sample ID: 500-69547-14
Matrix: Solid
Percent Solids: 94.7

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroform	<18		86	18	ug/Kg	☼	12/30/13 14:15	01/07/14 17:39	50
Chloromethane	<40		170	40	ug/Kg	☼	12/30/13 14:15	01/07/14 17:39	50
cis-1,2-Dichloroethene	<11		86	11	ug/Kg	☼	12/30/13 14:15	01/07/14 17:39	50
cis-1,3-Dichloropropene	<15		86	15	ug/Kg	☼	12/30/13 14:15	01/07/14 17:39	50
Dibromochloromethane	<30		170	30	ug/Kg	☼	12/30/13 14:15	01/07/14 17:39	50
Dibromomethane	<41		170	41	ug/Kg	☼	12/30/13 14:15	01/07/14 17:39	50
Dichlorodifluoromethane	<44	*	170	44	ug/Kg	☼	12/30/13 14:15	01/07/14 17:39	50
Ethylbenzene	<11		22	11	ug/Kg	☼	12/30/13 14:15	01/07/14 17:39	50
Hexachlorobutadiene	<30		170	30	ug/Kg	☼	12/30/13 14:15	01/07/14 17:39	50
Isopropyl ether	<13		170	13	ug/Kg	☼	12/30/13 14:15	01/07/14 17:39	50
Isopropylbenzene	<22		170	22	ug/Kg	☼	12/30/13 14:15	01/07/14 17:39	50
Methyl tert-butyl ether	<37		170	37	ug/Kg	☼	12/30/13 14:15	01/07/14 17:39	50
Methylene Chloride	<59		430	59	ug/Kg	☼	12/30/13 14:15	01/07/14 17:39	50
Naphthalene	<43		170	43	ug/Kg	☼	12/30/13 14:15	01/07/14 17:39	50
n-Butylbenzene	<11		86	11	ug/Kg	☼	12/30/13 14:15	01/07/14 17:39	50
N-Propylbenzene	<15		170	15	ug/Kg	☼	12/30/13 14:15	01/07/14 17:39	50
p-Isopropyltoluene	<16		170	16	ug/Kg	☼	12/30/13 14:15	01/07/14 17:39	50
sec-Butylbenzene	<13		86	13	ug/Kg	☼	12/30/13 14:15	01/07/14 17:39	50
Styrene	<8.5		86	8.5	ug/Kg	☼	12/30/13 14:15	01/07/14 17:39	50
tert-Butylbenzene	<12		86	12	ug/Kg	☼	12/30/13 14:15	01/07/14 17:39	50
Tetrachloroethene	<14		86	14	ug/Kg	☼	12/30/13 14:15	01/07/14 17:39	50
Toluene	**26**		22	9.9	ug/Kg	☼	12/30/13 14:15	01/07/14 17:39	50
trans-1,2-Dichloroethene	<22		86	22	ug/Kg	☼	12/30/13 14:15	01/07/14 17:39	50
trans-1,3-Dichloropropene	<18		86	18	ug/Kg	☼	12/30/13 14:15	01/07/14 17:39	50
Trichloroethene	<16		43	16	ug/Kg	☼	12/30/13 14:15	01/07/14 17:39	50
Trichlorofluoromethane	<36		170	36	ug/Kg	☼	12/30/13 14:15	01/07/14 17:39	50
Vinyl chloride	<9.0		22	9.0	ug/Kg	☼	12/30/13 14:15	01/07/14 17:39	50
Xylenes, Total	<5.9		43	5.9	ug/Kg	☼	12/30/13 14:15	01/07/14 17:39	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*75 - 125*	*12/30/13 14:15*	*01/07/14 17:39*	*50*
4-Bromofluorobenzene (Surr)	*93*		*75 - 120*	*12/30/13 14:15*	*01/07/14 17:39*	*50*
Dibromofluoromethane	*100*		*75 - 120*	*12/30/13 14:15*	*01/07/14 17:39*	*50*
Toluene-d8 (Surr)	*107*		*75 - 120*	*12/30/13 14:15*	*01/07/14 17:39*	*50*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<6.1		17	6.1	ug/Kg	☼	01/07/14 09:29	01/08/14 13:45	1
PCB-1221	<7.6		17	7.6	ug/Kg	☼	01/07/14 09:29	01/08/14 13:45	1
PCB-1232	<7.5		17	7.5	ug/Kg	☼	01/07/14 09:29	01/08/14 13:45	1
PCB-1242	<5.6		17	5.6	ug/Kg	☼	01/07/14 09:29	01/08/14 13:45	1
PCB-1248	<6.8		17	6.8	ug/Kg	☼	01/07/14 09:29	01/08/14 13:45	1
PCB-1254	<3.7		17	3.7	ug/Kg	☼	01/07/14 09:29	01/08/14 13:45	1
PCB-1260	<8.4		17	8.4	ug/Kg	☼	01/07/14 09:29	01/08/14 13:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*67*		*50 - 116*	*01/07/14 09:29*	*01/08/14 13:45*	*1*
DCB Decachlorobiphenyl	*96*		*48 - 142*	*01/07/14 09:29*	*01/08/14 13:45*	*1*

Client: ARCADIS U.S., Inc.
Project/Site: MadisonKipp

TestAmerica Job ID: 500-69547-1

Client Sample ID: B-175 (18.5-20.5)
Date Collected: 12/30/13 14:40
Date Received: 01/03/14 10:30

Lab Sample ID: 500-69547-15
Matrix: Solid
Percent Solids: 94.1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<31		180	31	ug/Kg	☼	12/30/13 14:40	01/07/14 18:03	50
1,1,1-Trichloroethane	<18		89	18	ug/Kg	☼	12/30/13 14:40	01/07/14 18:03	50
1,1,2,2-Tetrachloroethane	<21		89	21	ug/Kg	☼	12/30/13 14:40	01/07/14 18:03	50
1,1,2-Trichloroethane	<25		89	25	ug/Kg	☼	12/30/13 14:40	01/07/14 18:03	50
1,1-Dichloroethane	<17		89	17	ug/Kg	☼	12/30/13 14:40	01/07/14 18:03	50
1,1-Dichloroethene	<27		89	27	ug/Kg	☼	12/30/13 14:40	01/07/14 18:03	50
1,1-Dichloropropene	<31		89	31	ug/Kg	☼	12/30/13 14:40	01/07/14 18:03	50
1,2,3-Trichlorobenzene	<31		180	31	ug/Kg	☼	12/30/13 14:40	01/07/14 18:03	50
1,2,3-Trichloropropane	<51		180	51	ug/Kg	☼	12/30/13 14:40	01/07/14 18:03	50
1,2,4-Trichlorobenzene	<34		180	34	ug/Kg	☼	12/30/13 14:40	01/07/14 18:03	50
1,2,4-Trimethylbenzene	<19		180	19	ug/Kg	☼	12/30/13 14:40	01/07/14 18:03	50
1,2-Dibromo-3-Chloropropane	<78		180	78	ug/Kg	☼	12/30/13 14:40	01/07/14 18:03	50
1,2-Dibromoethane	<28		180	28	ug/Kg	☼	12/30/13 14:40	01/07/14 18:03	50
1,2-Dichlorobenzene	<18		180	18	ug/Kg	☼	12/30/13 14:40	01/07/14 18:03	50
1,2-Dichloroethane	<25		89	25	ug/Kg	☼	12/30/13 14:40	01/07/14 18:03	50
1,2-Dichloropropane	<18		89	18	ug/Kg	☼	12/30/13 14:40	01/07/14 18:03	50
1,3,5-Trimethylbenzene	<18		180	18	ug/Kg	☼	12/30/13 14:40	01/07/14 18:03	50
1,3-Dichlorobenzene	<23		180	23	ug/Kg	☼	12/30/13 14:40	01/07/14 18:03	50
1,3-Dichloropropane	<12		89	12	ug/Kg	☼	12/30/13 14:40	01/07/14 18:03	50
1,4-Dichlorobenzene	<16		180	16	ug/Kg	☼	12/30/13 14:40	01/07/14 18:03	50
2,2-Dichloropropane	<28		89	28	ug/Kg	☼	12/30/13 14:40	01/07/14 18:03	50
2-Chlorotoluene	<19		89	19	ug/Kg	☼	12/30/13 14:40	01/07/14 18:03	50
4-Chlorotoluene	<18		89	18	ug/Kg	☼	12/30/13 14:40	01/07/14 18:03	50
Benzene	<6.6		22	6.6	ug/Kg	☼	12/30/13 14:40	01/07/14 18:03	50
Bromobenzene	<38		180	38	ug/Kg	☼	12/30/13 14:40	01/07/14 18:03	50
Bromochloromethane	<34		180	34	ug/Kg	☼	12/30/13 14:40	01/07/14 18:03	50
Bromodichloromethane	<30		180	30	ug/Kg	☼	12/30/13 14:40	01/07/14 18:03	50
Bromoform	<39		180	39	ug/Kg	☼	12/30/13 14:40	01/07/14 18:03	50
Bromomethane	<61		180	61	ug/Kg	☼	12/30/13 14:40	01/07/14 18:03	50
Carbon tetrachloride	<23		89	23	ug/Kg	☼	12/30/13 14:40	01/07/14 18:03	50
Chlorobenzene	<13		89	13	ug/Kg	☼	12/30/13 14:40	01/07/14 18:03	50
Chloroethane	<39		180	39	ug/Kg	☼	12/30/13 14:40	01/07/14 18:03	50
Chloroform	<18		89	18	ug/Kg	☼	12/30/13 14:40	01/07/14 18:03	50
Chloromethane	<41		180	41	ug/Kg	☼	12/30/13 14:40	01/07/14 18:03	50
cis-1,2-Dichloroethene	<11		89	11	ug/Kg	☼	12/30/13 14:40	01/07/14 18:03	50
cis-1,3-Dichloropropene	<16		89	16	ug/Kg	☼	12/30/13 14:40	01/07/14 18:03	50
Dibromochloromethane	<31		180	31	ug/Kg	☼	12/30/13 14:40	01/07/14 18:03	50
Dibromomethane	<43		180	43	ug/Kg	☼	12/30/13 14:40	01/07/14 18:03	50
Dichlorodifluoromethane	<46	*	180	46	ug/Kg	☼	12/30/13 14:40	01/07/14 18:03	50
Ethylbenzene	<11		22	11	ug/Kg	☼	12/30/13 14:40	01/07/14 18:03	50
Hexachlorobutadiene	<31		180	31	ug/Kg	☼	12/30/13 14:40	01/07/14 18:03	50
Isopropyl ether	<13		180	13	ug/Kg	☼	12/30/13 14:40	01/07/14 18:03	50
Isopropylbenzene	<22		180	22	ug/Kg	☼	12/30/13 14:40	01/07/14 18:03	50
Methyl tert-butyl ether	<38		180	38	ug/Kg	☼	12/30/13 14:40	01/07/14 18:03	50
Methylene Chloride	<61		450	61	ug/Kg	☼	12/30/13 14:40	01/07/14 18:03	50
Naphthalene	<44		180	44	ug/Kg	☼	12/30/13 14:40	01/07/14 18:03	50
n-Butylbenzene	<12		89	12	ug/Kg	☼	12/30/13 14:40	01/07/14 18:03	50
N-Propylbenzene	<16		180	16	ug/Kg	☼	12/30/13 14:40	01/07/14 18:03	50
p-Isopropyltoluene	<17		180	17	ug/Kg	☼	12/30/13 14:40	01/07/14 18:03	50

Client Sample ID: B-175 (18.5-20.5)

Lab Sample ID: 500-69547-15
Date Collected: 12/30/13 14:40
Matrix: Solid
Date Received: 01/03/14 10:30
Percent Solids: 94.1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	<14		89	14	ug/Kg	☼	12/30/13 14:40	01/07/14 18:03	50
Styrene	<8.8		89	8.8	ug/Kg	☼	12/30/13 14:40	01/07/14 18:03	50
tert-Butylbenzene	<12		89	12	ug/Kg	☼	12/30/13 14:40	01/07/14 18:03	50
Tetrachloroethene	<15		89	15	ug/Kg	☼	12/30/13 14:40	01/07/14 18:03	50
Toluene	<10		22	10	ug/Kg	☼	12/30/13 14:40	01/07/14 18:03	50
trans-1,2-Dichloroethene	<22		89	22	ug/Kg	☼	12/30/13 14:40	01/07/14 18:03	50
trans-1,3-Dichloropropene	<19		89	19	ug/Kg	☼	12/30/13 14:40	01/07/14 18:03	50
Trichloroethene	<17		45	17	ug/Kg	☼	12/30/13 14:40	01/07/14 18:03	50
Trichlorofluoromethane	<37		180	37	ug/Kg	☼	12/30/13 14:40	01/07/14 18:03	50
Vinyl chloride	<9.3		22	9.3	ug/Kg	☼	12/30/13 14:40	01/07/14 18:03	50
Xylenes, Total	<6.1		45	6.1	ug/Kg	☼	12/30/13 14:40	01/07/14 18:03	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*97*		*75 - 125*	*12/30/13 14:40*	*01/07/14 18:03*	*50*
4-Bromofluorobenzene (Surr)	*95*		*75 - 120*	*12/30/13 14:40*	*01/07/14 18:03*	*50*
Dibromofluoromethane	*101*		*75 - 120*	*12/30/13 14:40*	*01/07/14 18:03*	*50*
Toluene-d8 (Surr)	*108*		*75 - 120*	*12/30/13 14:40*	*01/07/14 18:03*	*50*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<6.2		18	6.2	ug/Kg	☼	01/07/14 09:29	01/08/14 13:59	1
PCB-1221	<7.8		18	7.8	ug/Kg	☼	01/07/14 09:29	01/08/14 13:59	1
PCB-1232	<7.7		18	7.7	ug/Kg	☼	01/07/14 09:29	01/08/14 13:59	1
PCB-1242	**11**	**J**	18	5.8	ug/Kg	☼	01/07/14 09:29	01/08/14 13:59	1
PCB-1248	<7.0		18	7.0	ug/Kg	☼	01/07/14 09:29	01/08/14 13:59	1
PCB-1254	<3.8		18	3.8	ug/Kg	☼	01/07/14 09:29	01/08/14 13:59	1
PCB-1260	<8.7		18	8.7	ug/Kg	☼	01/07/14 09:29	01/08/14 13:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*70*		*50 - 116*	*01/07/14 09:29*	*01/08/14 13:59*	*1*
DCB Decachlorobiphenyl	*102*		*48 - 142*	*01/07/14 09:29*	*01/08/14 13:59*	*1*

Client Sample ID: B-176 (2-4)

Lab Sample ID: 500-69547-16
Date Collected: 12/30/13 15:00
Matrix: Solid
Date Received: 01/03/14 10:30
Percent Solids: 82.0

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<39		220	39	ug/Kg	☼	12/30/13 15:00	01/07/14 18:28	50
1,1,1-Trichloroethane	<23		110	23	ug/Kg	☼	12/30/13 15:00	01/07/14 18:28	50
1,1,2,2-Tetrachloroethane	<26		110	26	ug/Kg	☼	12/30/13 15:00	01/07/14 18:28	50
1,1,2-Trichloroethane	<31		110	31	ug/Kg	☼	12/30/13 15:00	01/07/14 18:28	50
1,1-Dichloroethane	<21		110	21	ug/Kg	☼	12/30/13 15:00	01/07/14 18:28	50
1,1-Dichloroethene	<34		110	34	ug/Kg	☼	12/30/13 15:00	01/07/14 18:28	50
1,1-Dichloropropene	<39		110	39	ug/Kg	☼	12/30/13 15:00	01/07/14 18:28	50
1,2,3-Trichlorobenzene	<39		220	39	ug/Kg	☼	12/30/13 15:00	01/07/14 18:28	50
1,2,3-Trichloropropane	<64		220	64	ug/Kg	☼	12/30/13 15:00	01/07/14 18:28	50
1,2,4-Trichlorobenzene	<42		220	42	ug/Kg	☼	12/30/13 15:00	01/07/14 18:28	50
1,2,4-Trimethylbenzene	<24		220	24	ug/Kg	☼	12/30/13 15:00	01/07/14 18:28	50
1,2-Dibromo-3-Chloropropane	<98		220	98	ug/Kg	☼	12/30/13 15:00	01/07/14 18:28	50

Client: ARCADIS U.S., Inc.
Project/Site: MadisonKipp

TestAmerica Job ID: 500-69547-1

Client Sample ID: B-176 (2-4)
Date Collected: 12/30/13 15:00
Date Received: 01/03/14 10:30

Lab Sample ID: 500-69547-16
Matrix: Solid
Percent Solids: 82.0

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane	<35		220	35	ug/Kg	☼	12/30/13 15:00	01/07/14 18:28	50
1,2-Dichlorobenzene	<23		220	23	ug/Kg	☼	12/30/13 15:00	01/07/14 18:28	50
1,2-Dichloroethane	<32		110	32	ug/Kg	☼	12/30/13 15:00	01/07/14 18:28	50
1,2-Dichloropropane	<22		110	22	ug/Kg	☼	12/30/13 15:00	01/07/14 18:28	50
1,3,5-Trimethylbenzene	<23		220	23	ug/Kg	☼	12/30/13 15:00	01/07/14 18:28	50
1,3-Dichlorobenzene	<29		220	29	ug/Kg	☼	12/30/13 15:00	01/07/14 18:28	50
1,3-Dichloropropane	<15		110	15	ug/Kg	☼	12/30/13 15:00	01/07/14 18:28	50
1,4-Dichlorobenzene	<20		220	20	ug/Kg	☼	12/30/13 15:00	01/07/14 18:28	50
2,2-Dichloropropane	<35		110	35	ug/Kg	☼	12/30/13 15:00	01/07/14 18:28	50
2-Chlorotoluene	<23		110	23	ug/Kg	☼	12/30/13 15:00	01/07/14 18:28	50
4-Chlorotoluene	<22		110	22	ug/Kg	☼	12/30/13 15:00	01/07/14 18:28	50
Benzene	<8.3		28	8.3	ug/Kg	☼	12/30/13 15:00	01/07/14 18:28	50
Bromobenzene	<48		220	48	ug/Kg	☼	12/30/13 15:00	01/07/14 18:28	50
Bromochloromethane	<42		220	42	ug/Kg	☼	12/30/13 15:00	01/07/14 18:28	50
Bromodichloromethane	<38		220	38	ug/Kg	☼	12/30/13 15:00	01/07/14 18:28	50
Bromoform	<49		220	49	ug/Kg	☼	12/30/13 15:00	01/07/14 18:28	50
Bromomethane	<76		220	76	ug/Kg	☼	12/30/13 15:00	01/07/14 18:28	50
Carbon tetrachloride	<29		110	29	ug/Kg	☼	12/30/13 15:00	01/07/14 18:28	50
Chlorobenzene	<16		110	16	ug/Kg	☼	12/30/13 15:00	01/07/14 18:28	50
Chloroethane	<49		220	49	ug/Kg	☼	12/30/13 15:00	01/07/14 18:28	50
Chloroform	<23		110	23	ug/Kg	☼	12/30/13 15:00	01/07/14 18:28	50
Chloromethane	<52		220	52	ug/Kg	☼	12/30/13 15:00	01/07/14 18:28	50
cis-1,2-Dichloroethene	<14		110	14	ug/Kg	☼	12/30/13 15:00	01/07/14 18:28	50
cis-1,3-Dichloropropene	<20		110	20	ug/Kg	☼	12/30/13 15:00	01/07/14 18:28	50
Dibromochloromethane	<39		220	39	ug/Kg	☼	12/30/13 15:00	01/07/14 18:28	50
Dibromomethane	<54		220	54	ug/Kg	☼	12/30/13 15:00	01/07/14 18:28	50
Dichlorodifluoromethane	<57	*	220	57	ug/Kg	☼	12/30/13 15:00	01/07/14 18:28	50
Ethylbenzene	<14		28	14	ug/Kg	☼	12/30/13 15:00	01/07/14 18:28	50
Hexachlorobutadiene	<39		220	39	ug/Kg	☼	12/30/13 15:00	01/07/14 18:28	50
Isopropyl ether	<16		220	16	ug/Kg	☼	12/30/13 15:00	01/07/14 18:28	50
Isopropylbenzene	<28		220	28	ug/Kg	☼	12/30/13 15:00	01/07/14 18:28	50
Methyl tert-butyl ether	<48		220	48	ug/Kg	☼	12/30/13 15:00	01/07/14 18:28	50
Methylene Chloride	<77		560	77	ug/Kg	☼	12/30/13 15:00	01/07/14 18:28	50
Naphthalene	<55		220	55	ug/Kg	☼	12/30/13 15:00	01/07/14 18:28	50
n-Butylbenzene	<14		110	14	ug/Kg	☼	12/30/13 15:00	01/07/14 18:28	50
N-Propylbenzene	<20		220	20	ug/Kg	☼	12/30/13 15:00	01/07/14 18:28	50
p-Isopropyltoluene	<21		220	21	ug/Kg	☼	12/30/13 15:00	01/07/14 18:28	50
sec-Butylbenzene	<17		110	17	ug/Kg	☼	12/30/13 15:00	01/07/14 18:28	50
Styrene	<11		110	11	ug/Kg	☼	12/30/13 15:00	01/07/14 18:28	50
tert-Butylbenzene	<15		110	15	ug/Kg	☼	12/30/13 15:00	01/07/14 18:28	50
Tetrachloroethene	<19		110	19	ug/Kg	☼	12/30/13 15:00	01/07/14 18:28	50
Toluene	**83**		28	13	ug/Kg	☼	12/30/13 15:00	01/07/14 18:28	50
trans-1,2-Dichloroethene	<28		110	28	ug/Kg	☼	12/30/13 15:00	01/07/14 18:28	50
trans-1,3-Dichloropropene	<23		110	23	ug/Kg	☼	12/30/13 15:00	01/07/14 18:28	50
Trichloroethene	<21		56	21	ug/Kg	☼	12/30/13 15:00	01/07/14 18:28	50
Trichlorofluoromethane	<47		220	47	ug/Kg	☼	12/30/13 15:00	01/07/14 18:28	50
Vinyl chloride	<12		28	12	ug/Kg	☼	12/30/13 15:00	01/07/14 18:28	50
Xylenes, Total	<7.7		56	7.7	ug/Kg	☼	12/30/13 15:00	01/07/14 18:28	50

Client Sample ID: B-176 (2-4) — **Lab Sample ID: 500-69547-16**
Date Collected: 12/30/13 15:00 — **Matrix: Solid**
Date Received: 01/03/14 10:30 — **Percent Solids: 82.0**

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		75 - 125	12/30/13 15:00	01/07/14 18:28	50
4-Bromofluorobenzene (Surr)	93		75 - 120	12/30/13 15:00	01/07/14 18:28	50
Dibromofluoromethane	101		75 - 120	12/30/13 15:00	01/07/14 18:28	50
Toluene-d8 (Surr)	106		75 - 120	12/30/13 15:00	01/07/14 18:28	50

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<7.0		20	7.0	ug/Kg	☼	01/07/14 09:29	01/08/14 14:13	1
PCB-1221	<8.7		20	8.7	ug/Kg	☼	01/07/14 09:29	01/08/14 14:13	1
PCB-1232	<8.6		20	8.6	ug/Kg	☼	01/07/14 09:29	01/08/14 14:13	1
PCB-1242	17	J	20	6.5	ug/Kg	☼	01/07/14 09:29	01/08/14 14:13	1
PCB-1248	<7.8		20	7.8	ug/Kg	☼	01/07/14 09:29	01/08/14 14:13	1
PCB-1254	<4.2		20	4.2	ug/Kg	☼	01/07/14 09:29	01/08/14 14:13	1
PCB-1260	<9.7		20	9.7	ug/Kg	☼	01/07/14 09:29	01/08/14 14:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	83		50 - 116	01/07/14 09:29	01/08/14 14:13	1
DCB Decachlorobiphenyl	112		48 - 142	01/07/14 09:29	01/08/14 14:13	1

Client Sample ID: B-176 (12-14) — **Lab Sample ID: 500-69547-17**
Date Collected: 12/30/13 15:15 — **Matrix: Solid**
Date Received: 01/03/14 10:30 — **Percent Solids: 95.6**

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<27		150	27	ug/Kg	☼	12/30/13 15:15	01/08/14 12:31	50
1,1,1-Trichloroethane	<15		77	15	ug/Kg	☼	12/30/13 15:15	01/08/14 12:31	50
1,1,2,2-Tetrachloroethane	<18		77	18	ug/Kg	☼	12/30/13 15:15	01/08/14 12:31	50
1,1,2-Trichloroethane	<21		77	21	ug/Kg	☼	12/30/13 15:15	01/08/14 12:31	50
1,1-Dichloroethane	<14		77	14	ug/Kg	☼	12/30/13 15:15	01/08/14 12:31	50
1,1-Dichloroethene	<24		77	24	ug/Kg	☼	12/30/13 15:15	01/08/14 12:31	50
1,1-Dichloropropene	<26		77	26	ug/Kg	☼	12/30/13 15:15	01/08/14 12:31	50
1,2,3-Trichlorobenzene	<27		150	27	ug/Kg	☼	12/30/13 15:15	01/08/14 12:31	50
1,2,3-Trichloropropane	<44		150	44	ug/Kg	☼	12/30/13 15:15	01/08/14 12:31	50
1,2,4-Trichlorobenzene	<29		150	29	ug/Kg	☼	12/30/13 15:15	01/08/14 12:31	50
1,2,4-Trimethylbenzene	<16		150	16	ug/Kg	☼	12/30/13 15:15	01/08/14 12:31	50
1,2-Dibromo-3-Chloropropane	<67		150	67	ug/Kg	☼	12/30/13 15:15	01/08/14 12:31	50
1,2-Dibromoethane	<24		150	24	ug/Kg	☼	12/30/13 15:15	01/08/14 12:31	50
1,2-Dichlorobenzene	<16		150	16	ug/Kg	☼	12/30/13 15:15	01/08/14 12:31	50
1,2-Dichloroethane	<22		77	22	ug/Kg	☼	12/30/13 15:15	01/08/14 12:31	50
1,2-Dichloropropane	<15		77	15	ug/Kg	☼	12/30/13 15:15	01/08/14 12:31	50
1,3,5-Trimethylbenzene	<16		150	16	ug/Kg	☼	12/30/13 15:15	01/08/14 12:31	50
1,3-Dichlorobenzene	<20		150	20	ug/Kg	☼	12/30/13 15:15	01/08/14 12:31	50
1,3-Dichloropropane	<10		77	10	ug/Kg	☼	12/30/13 15:15	01/08/14 12:31	50
1,4-Dichlorobenzene	<13		150	13	ug/Kg	☼	12/30/13 15:15	01/08/14 12:31	50
2,2-Dichloropropane	<24		77	24	ug/Kg	☼	12/30/13 15:15	01/08/14 12:31	50
2-Chlorotoluene	<16		77	16	ug/Kg	☼	12/30/13 15:15	01/08/14 12:31	50
4-Chlorotoluene	<15		77	15	ug/Kg	☼	12/30/13 15:15	01/08/14 12:31	50
Benzene	<5.7		19	5.7	ug/Kg	☼	12/30/13 15:15	01/08/14 12:31	50
Bromobenzene	<33		150	33	ug/Kg	☼	12/30/13 15:15	01/08/14 12:31	50
Bromochloromethane	<29		150	29	ug/Kg	☼	12/30/13 15:15	01/08/14 12:31	50

Client Sample ID: B-176 (12-14)
Date Collected: 12/30/13 15:15
Date Received: 01/03/14 10:30

Lab Sample ID: 500-69547-17
Matrix: Solid
Percent Solids: 95.6

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromodichloromethane	<26		150	26	ug/Kg	☼	12/30/13 15:15	01/08/14 12:31	50
Bromoform	<34		150	34	ug/Kg	☼	12/30/13 15:15	01/08/14 12:31	50
Bromomethane	<53		150	53	ug/Kg	☼	12/30/13 15:15	01/08/14 12:31	50
Carbon tetrachloride	<20		77	20	ug/Kg	☼	12/30/13 15:15	01/08/14 12:31	50
Chlorobenzene	<11		77	11	ug/Kg	☼	12/30/13 15:15	01/08/14 12:31	50
Chloroethane	<33		150	33	ug/Kg	☼	12/30/13 15:15	01/08/14 12:31	50
Chloroform	<16		77	16	ug/Kg	☼	12/30/13 15:15	01/08/14 12:31	50
Chloromethane	<36		150	36	ug/Kg	☼	12/30/13 15:15	01/08/14 12:31	50
cis-1,2-Dichloroethene	<9.5		77	9.5	ug/Kg	☼	12/30/13 15:15	01/08/14 12:31	50
cis-1,3-Dichloropropene	<14		77	14	ug/Kg	☼	12/30/13 15:15	01/08/14 12:31	50
Dibromochloromethane	<27		150	27	ug/Kg	☼	12/30/13 15:15	01/08/14 12:31	50
Dibromomethane	<37		150	37	ug/Kg	☼	12/30/13 15:15	01/08/14 12:31	50
Dichlorodifluoromethane	<39	*	150	39	ug/Kg	☼	12/30/13 15:15	01/08/14 12:31	50
Ethylbenzene	<9.7		19	9.7	ug/Kg	☼	12/30/13 15:15	01/08/14 12:31	50
Hexachlorobutadiene	<27		150	27	ug/Kg	☼	12/30/13 15:15	01/08/14 12:31	50
Isopropyl ether	<11		150	11	ug/Kg	☼	12/30/13 15:15	01/08/14 12:31	50
Isopropylbenzene	<19		150	19	ug/Kg	☼	12/30/13 15:15	01/08/14 12:31	50
Methyl tert-butyl ether	<33		150	33	ug/Kg	☼	12/30/13 15:15	01/08/14 12:31	50
Methylene Chloride	<53		380	53	ug/Kg	☼	12/30/13 15:15	01/08/14 12:31	50
Naphthalene	<38		150	38	ug/Kg	☼	12/30/13 15:15	01/08/14 12:31	50
n-Butylbenzene	<9.9		77	9.9	ug/Kg	☼	12/30/13 15:15	01/08/14 12:31	50
N-Propylbenzene	<13		150	13	ug/Kg	☼	12/30/13 15:15	01/08/14 12:31	50
p-Isopropyltoluene	<14		150	14	ug/Kg	☼	12/30/13 15:15	01/08/14 12:31	50
sec-Butylbenzene	<12		77	12	ug/Kg	☼	12/30/13 15:15	01/08/14 12:31	50
Styrene	<7.6		77	7.6	ug/Kg	☼	12/30/13 15:15	01/08/14 12:31	50
tert-Butylbenzene	<10		77	10	ug/Kg	☼	12/30/13 15:15	01/08/14 12:31	50
Tetrachloroethene	<13		77	13	ug/Kg	☼	12/30/13 15:15	01/08/14 12:31	50
Toluene	<8.9		19	8.9	ug/Kg	☼	12/30/13 15:15	01/08/14 12:31	50
trans-1,2-Dichloroethene	<19		77	19	ug/Kg	☼	12/30/13 15:15	01/08/14 12:31	50
trans-1,3-Dichloropropene	<16		77	16	ug/Kg	☼	12/30/13 15:15	01/08/14 12:31	50
Trichloroethene	<14		38	14	ug/Kg	☼	12/30/13 15:15	01/08/14 12:31	50
Trichlorofluoromethane	<32		150	32	ug/Kg	☼	12/30/13 15:15	01/08/14 12:31	50
Vinyl chloride	<8.0		19	8.0	ug/Kg	☼	12/30/13 15:15	01/08/14 12:31	50
Xylenes, Total	<5.3		38	5.3	ug/Kg	☼	12/30/13 15:15	01/08/14 12:31	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*75 - 125*	*12/30/13 15:15*	*01/08/14 12:31*	*50*
4-Bromofluorobenzene (Surr)	*98*		*75 - 120*	*12/30/13 15:15*	*01/08/14 12:31*	*50*
Dibromofluoromethane	*100*		*75 - 120*	*12/30/13 15:15*	*01/08/14 12:31*	*50*
Toluene-d8 (Surr)	*108*		*75 - 120*	*12/30/13 15:15*	*01/08/14 12:31*	*50*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<5.9		17	5.9	ug/Kg	☼	01/07/14 09:29	01/08/14 14:27	1
PCB-1221	<7.3		17	7.3	ug/Kg	☼	01/07/14 09:29	01/08/14 14:27	1
PCB-1232	<7.3		17	7.3	ug/Kg	☼	01/07/14 09:29	01/08/14 14:27	1
PCB-1242	**11**	**J**	17	5.5	ug/Kg	☼	01/07/14 09:29	01/08/14 14:27	1
PCB-1248	<6.6		17	6.6	ug/Kg	☼	01/07/14 09:29	01/08/14 14:27	1
PCB-1254	<3.6		17	3.6	ug/Kg	☼	01/07/14 09:29	01/08/14 14:27	1
PCB-1260	<8.2		17	8.2	ug/Kg	☼	01/07/14 09:29	01/08/14 14:27	1

Client Sample ID: B-176 (12-14)

Lab Sample ID: 500-69547-17

Date Collected: 12/30/13 15:15
Matrix: Solid
Date Received: 01/03/14 10:30
Percent Solids: 95.6

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*68*		*50 - 116*	*01/07/14 09:29*	*01/08/14 14:27*	*1*
DCB Decachlorobiphenyl	*88*		*48 - 142*	*01/07/14 09:29*	*01/08/14 14:27*	*1*

Client Sample ID: B-176 (18.5-20.5)

Lab Sample ID: 500-69547-18

Date Collected: 12/30/13 15:30
Matrix: Solid
Date Received: 01/03/14 10:30
Percent Solids: 93.0

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<31		180	31	ug/Kg	☼	12/30/13 15:30	01/08/14 12:56	50
1,1,1-Trichloroethane	<18		88	18	ug/Kg	☼	12/30/13 15:30	01/08/14 12:56	50
1,1,2,2-Tetrachloroethane	<21		88	21	ug/Kg	☼	12/30/13 15:30	01/08/14 12:56	50
1,1,2-Trichloroethane	<25		88	25	ug/Kg	☼	12/30/13 15:30	01/08/14 12:56	50
1,1-Dichloroethane	<16		88	16	ug/Kg	☼	12/30/13 15:30	01/08/14 12:56	50
1,1-Dichloroethene	<27		88	27	ug/Kg	☼	12/30/13 15:30	01/08/14 12:56	50
1,1-Dichloropropene	<30		88	30	ug/Kg	☼	12/30/13 15:30	01/08/14 12:56	50
1,2,3-Trichlorobenzene	<31		180	31	ug/Kg	☼	12/30/13 15:30	01/08/14 12:56	50
1,2,3-Trichloropropane	<51		180	51	ug/Kg	☼	12/30/13 15:30	01/08/14 12:56	50
1,2,4-Trichlorobenzene	<33		180	33	ug/Kg	☼	12/30/13 15:30	01/08/14 12:56	50
1,2,4-Trimethylbenzene	<19		180	19	ug/Kg	☼	12/30/13 15:30	01/08/14 12:56	50
1,2-Dibromo-3-Chloropropane	<77		180	77	ug/Kg	☼	12/30/13 15:30	01/08/14 12:56	50
1,2-Dibromoethane	<28		180	28	ug/Kg	☼	12/30/13 15:30	01/08/14 12:56	50
1,2-Dichlorobenzene	<18		180	18	ug/Kg	☼	12/30/13 15:30	01/08/14 12:56	50
1,2-Dichloroethane	<25		88	25	ug/Kg	☼	12/30/13 15:30	01/08/14 12:56	50
1,2-Dichloropropane	<17		88	17	ug/Kg	☼	12/30/13 15:30	01/08/14 12:56	50
1,3,5-Trimethylbenzene	<18		180	18	ug/Kg	☼	12/30/13 15:30	01/08/14 12:56	50
1,3-Dichlorobenzene	<23		180	23	ug/Kg	☼	12/30/13 15:30	01/08/14 12:56	50
1,3-Dichloropropane	<12		88	12	ug/Kg	☼	12/30/13 15:30	01/08/14 12:56	50
1,4-Dichlorobenzene	<15		180	15	ug/Kg	☼	12/30/13 15:30	01/08/14 12:56	50
2,2-Dichloropropane	<28		88	28	ug/Kg	☼	12/30/13 15:30	01/08/14 12:56	50
2-Chlorotoluene	<18		88	18	ug/Kg	☼	12/30/13 15:30	01/08/14 12:56	50
4-Chlorotoluene	<17		88	17	ug/Kg	☼	12/30/13 15:30	01/08/14 12:56	50
Benzene	<6.5		22	6.5	ug/Kg	☼	12/30/13 15:30	01/08/14 12:56	50
Bromobenzene	<37		180	37	ug/Kg	☼	12/30/13 15:30	01/08/14 12:56	50
Bromochloromethane	<33		180	33	ug/Kg	☼	12/30/13 15:30	01/08/14 12:56	50
Bromodichloromethane	<30		180	30	ug/Kg	☼	12/30/13 15:30	01/08/14 12:56	50
Bromoform	<39		180	39	ug/Kg	☼	12/30/13 15:30	01/08/14 12:56	50
Bromomethane	<60		180	60	ug/Kg	☼	12/30/13 15:30	01/08/14 12:56	50
Carbon tetrachloride	<23		88	23	ug/Kg	☼	12/30/13 15:30	01/08/14 12:56	50
Chlorobenzene	<13		88	13	ug/Kg	☼	12/30/13 15:30	01/08/14 12:56	50
Chloroethane	<38		180	38	ug/Kg	☼	12/30/13 15:30	01/08/14 12:56	50
Chloroform	<18		88	18	ug/Kg	☼	12/30/13 15:30	01/08/14 12:56	50
Chloromethane	<41		180	41	ug/Kg	☼	12/30/13 15:30	01/08/14 12:56	50
cis-1,2-Dichloroethene	<11		88	11	ug/Kg	☼	12/30/13 15:30	01/08/14 12:56	50
cis-1,3-Dichloropropene	<16		88	16	ug/Kg	☼	12/30/13 15:30	01/08/14 12:56	50
Dibromochloromethane	<31		180	31	ug/Kg	☼	12/30/13 15:30	01/08/14 12:56	50
Dibromomethane	<42		180	42	ug/Kg	☼	12/30/13 15:30	01/08/14 12:56	50
Dichlorodifluoromethane	<45	*	180	45	ug/Kg	☼	12/30/13 15:30	01/08/14 12:56	50
Ethylbenzene	<11		22	11	ug/Kg	☼	12/30/13 15:30	01/08/14 12:56	50
Hexachlorobutadiene	<31		180	31	ug/Kg	☼	12/30/13 15:30	01/08/14 12:56	50

Client Sample ID: B-176 (18.5-20.5)

Lab Sample ID: 500-69547-18

Date Collected: 12/30/13 15:30

Matrix: Solid

Date Received: 01/03/14 10:30

Percent Solids: 93.0

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isopropyl ether	<13		180	13	ug/Kg	☼	12/30/13 15:30	01/08/14 12:56	50
Isopropylbenzene	<22		180	22	ug/Kg	☼	12/30/13 15:30	01/08/14 12:56	50
Methyl tert-butyl ether	<38		180	38	ug/Kg	☼	12/30/13 15:30	01/08/14 12:56	50
Methylene Chloride	<60		440	60	ug/Kg	☼	12/30/13 15:30	01/08/14 12:56	50
Naphthalene	<44		180	44	ug/Kg	☼	12/30/13 15:30	01/08/14 12:56	50
n-Butylbenzene	<11		88	11	ug/Kg	☼	12/30/13 15:30	01/08/14 12:56	50
N-Propylbenzene	<15		180	15	ug/Kg	☼	12/30/13 15:30	01/08/14 12:56	50
p-Isopropyltoluene	<16		180	16	ug/Kg	☼	12/30/13 15:30	01/08/14 12:56	50
sec-Butylbenzene	<14		88	14	ug/Kg	☼	12/30/13 15:30	01/08/14 12:56	50
Styrene	<8.7		88	8.7	ug/Kg	☼	12/30/13 15:30	01/08/14 12:56	50
tert-Butylbenzene	<12		88	12	ug/Kg	☼	12/30/13 15:30	01/08/14 12:56	50
Tetrachloroethene	<15		88	15	ug/Kg	☼	12/30/13 15:30	01/08/14 12:56	50
Toluene	<10		22	10	ug/Kg	☼	12/30/13 15:30	01/08/14 12:56	50
trans-1,2-Dichloroethene	<22		88	22	ug/Kg	☼	12/30/13 15:30	01/08/14 12:56	50
trans-1,3-Dichloropropene	<18		88	18	ug/Kg	☼	12/30/13 15:30	01/08/14 12:56	50
Trichloroethene	<16		44	16	ug/Kg	☼	12/30/13 15:30	01/08/14 12:56	50
Trichlorofluoromethane	<37		180	37	ug/Kg	☼	12/30/13 15:30	01/08/14 12:56	50
Vinyl chloride	<9.2		22	9.2	ug/Kg	☼	12/30/13 15:30	01/08/14 12:56	50
Xylenes, Total	<6.0		44	6.0	ug/Kg	☼	12/30/13 15:30	01/08/14 12:56	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*98*		*75 - 125*	*12/30/13 15:30*	*01/08/14 12:56*	*50*
4-Bromofluorobenzene (Surr)	*98*		*75 - 120*	*12/30/13 15:30*	*01/08/14 12:56*	*50*
Dibromofluoromethane	*103*		*75 - 120*	*12/30/13 15:30*	*01/08/14 12:56*	*50*
Toluene-d8 (Surr)	*107*		*75 - 120*	*12/30/13 15:30*	*01/08/14 12:56*	*50*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<6.0		17	6.0	ug/Kg	☼	01/07/14 09:29	01/08/14 14:41	1
PCB-1221	<7.5		17	7.5	ug/Kg	☼	01/07/14 09:29	01/08/14 14:41	1
PCB-1232	<7.4		17	7.4	ug/Kg	☼	01/07/14 09:29	01/08/14 14:41	1
PCB-1242	**11**	**J**	17	5.6	ug/Kg	☼	01/07/14 09:29	01/08/14 14:41	1
PCB-1248	<6.7		17	6.7	ug/Kg	☼	01/07/14 09:29	01/08/14 14:41	1
PCB-1254	<3.7		17	3.7	ug/Kg	☼	01/07/14 09:29	01/08/14 14:41	1
PCB-1260	<8.4		17	8.4	ug/Kg	☼	01/07/14 09:29	01/08/14 14:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*66*		*50 - 116*	*01/07/14 09:29*	*01/08/14 14:41*	*1*
DCB Decachlorobiphenyl	*102*		*48 - 142*	*01/07/14 09:29*	*01/08/14 14:41*	*1*

Client Sample ID: B-178 (2-4)

Lab Sample ID: 500-69547-19

Date Collected: 01/02/14 08:30

Matrix: Solid

Date Received: 01/03/14 10:30

Percent Solids: 85.2

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<35		200	35	ug/Kg	☼	01/02/14 08:30	01/08/14 13:20	50
1,1,1-Trichloroethane	<20		100	20	ug/Kg	☼	01/02/14 08:30	01/08/14 13:20	50
1,1,2,2-Tetrachloroethane	<24		100	24	ug/Kg	☼	01/02/14 08:30	01/08/14 13:20	50
1,1,2-Trichloroethane	<28		100	28	ug/Kg	☼	01/02/14 08:30	01/08/14 13:20	50

Client: ARCADIS U.S., Inc.
Project/Site: MadisonKipp

TestAmerica Job ID: 500-69547-1

Client Sample ID: B-178 (2-4)
Date Collected: 01/02/14 08:30
Date Received: 01/03/14 10:30

Lab Sample ID: 500-69547-19
Matrix: Solid
Percent Solids: 85.2

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	<19		100	19	ug/Kg	☼	01/02/14 08:30	01/08/14 13:20	50
1,1-Dichloroethene	<31		100	31	ug/Kg	☼	01/02/14 08:30	01/08/14 13:20	50
1,1-Dichloropropene	<35		100	35	ug/Kg	☼	01/02/14 08:30	01/08/14 13:20	50
1,2,3-Trichlorobenzene	<35		200	35	ug/Kg	☼	01/02/14 08:30	01/08/14 13:20	50
1,2,3-Trichloropropane	<58		200	58	ug/Kg	☼	01/02/14 08:30	01/08/14 13:20	50
1,2,4-Trichlorobenzene	<38		200	38	ug/Kg	☼	01/02/14 08:30	01/08/14 13:20	50
1,2,4-Trimethylbenzene	<21		200	21	ug/Kg	☼	01/02/14 08:30	01/08/14 13:20	50
1,2-Dibromo-3-Chloropropane	<88		200	88	ug/Kg	☼	01/02/14 08:30	01/08/14 13:20	50
1,2-Dibromoethane	<32		200	32	ug/Kg	☼	01/02/14 08:30	01/08/14 13:20	50
1,2-Dichlorobenzene	<21		200	21	ug/Kg	☼	01/02/14 08:30	01/08/14 13:20	50
1,2-Dichloroethane	<29		100	29	ug/Kg	☼	01/02/14 08:30	01/08/14 13:20	50
1,2-Dichloropropane	<20		100	20	ug/Kg	☼	01/02/14 08:30	01/08/14 13:20	50
1,3,5-Trimethylbenzene	<21		200	21	ug/Kg	☼	01/02/14 08:30	01/08/14 13:20	50
1,3-Dichlorobenzene	<26		200	26	ug/Kg	☼	01/02/14 08:30	01/08/14 13:20	50
1,3-Dichloropropane	<14		100	14	ug/Kg	☼	01/02/14 08:30	01/08/14 13:20	50
1,4-Dichlorobenzene	<18		200	18	ug/Kg	☼	01/02/14 08:30	01/08/14 13:20	50
2,2-Dichloropropane	<32		100	32	ug/Kg	☼	01/02/14 08:30	01/08/14 13:20	50
2-Chlorotoluene	<21		100	21	ug/Kg	☼	01/02/14 08:30	01/08/14 13:20	50
4-Chlorotoluene	<20		100	20	ug/Kg	☼	01/02/14 08:30	01/08/14 13:20	50
Benzene	<7.5		25	7.5	ug/Kg	☼	01/02/14 08:30	01/08/14 13:20	50
Bromobenzene	<43		200	43	ug/Kg	☼	01/02/14 08:30	01/08/14 13:20	50
Bromochloromethane	<38		200	38	ug/Kg	☼	01/02/14 08:30	01/08/14 13:20	50
Bromodichloromethane	<34		200	34	ug/Kg	☼	01/02/14 08:30	01/08/14 13:20	50
Bromoform	<44		200	44	ug/Kg	☼	01/02/14 08:30	01/08/14 13:20	50
Bromomethane	<69		200	69	ug/Kg	☼	01/02/14 08:30	01/08/14 13:20	50
Carbon tetrachloride	<26		100	26	ug/Kg	☼	01/02/14 08:30	01/08/14 13:20	50
Chlorobenzene	<14		100	14	ug/Kg	☼	01/02/14 08:30	01/08/14 13:20	50
Chloroethane	<44		200	44	ug/Kg	☼	01/02/14 08:30	01/08/14 13:20	50
Chloroform	<21		100	21	ug/Kg	☼	01/02/14 08:30	01/08/14 13:20	50
Chloromethane	<47		200	47	ug/Kg	☼	01/02/14 08:30	01/08/14 13:20	50
cis-1,2-Dichloroethene	<12		100	12	ug/Kg	☼	01/02/14 08:30	01/08/14 13:20	50
cis-1,3-Dichloropropene	<18		100	18	ug/Kg	☼	01/02/14 08:30	01/08/14 13:20	50
Dibromochloromethane	<35		200	35	ug/Kg	☼	01/02/14 08:30	01/08/14 13:20	50
Dibromomethane	<48		200	48	ug/Kg	☼	01/02/14 08:30	01/08/14 13:20	50
Dichlorodifluoromethane	<52	*	200	52	ug/Kg	☼	01/02/14 08:30	01/08/14 13:20	50
Ethylbenzene	<13		25	13	ug/Kg	☼	01/02/14 08:30	01/08/14 13:20	50
Hexachlorobutadiene	<35		200	35	ug/Kg	☼	01/02/14 08:30	01/08/14 13:20	50
Isopropyl ether	<15		200	15	ug/Kg	☼	01/02/14 08:30	01/08/14 13:20	50
Isopropylbenzene	<25		200	25	ug/Kg	☼	01/02/14 08:30	01/08/14 13:20	50
Methyl tert-butyl ether	<43		200	43	ug/Kg	☼	01/02/14 08:30	01/08/14 13:20	50
Methylene Chloride	<69		500	69	ug/Kg	☼	01/02/14 08:30	01/08/14 13:20	50
Naphthalene	<50		200	50	ug/Kg	☼	01/02/14 08:30	01/08/14 13:20	50
n-Butylbenzene	<13		100	13	ug/Kg	☼	01/02/14 08:30	01/08/14 13:20	50
N-Propylbenzene	<18		200	18	ug/Kg	☼	01/02/14 08:30	01/08/14 13:20	50
p-Isopropyltoluene	<19		200	19	ug/Kg	☼	01/02/14 08:30	01/08/14 13:20	50
sec-Butylbenzene	<16		100	16	ug/Kg	☼	01/02/14 08:30	01/08/14 13:20	50
Styrene	<10		100	10	ug/Kg	☼	01/02/14 08:30	01/08/14 13:20	50
tert-Butylbenzene	<14		100	14	ug/Kg	☼	01/02/14 08:30	01/08/14 13:20	50
Tetrachloroethene	**78**	**J**	100	17	ug/Kg	☼	01/02/14 08:30	01/08/14 13:20	50

Client Sample ID: B-178 (2-4)

Lab Sample ID: 500-69547-19

Date Collected: 01/02/14 08:30
Matrix: Solid
Date Received: 01/03/14 10:30
Percent Solids: 85.2

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	<12		25	12	ug/Kg	☼	01/02/14 08:30	01/08/14 13:20	50
trans-1,2-Dichloroethene	<25		100	25	ug/Kg	☼	01/02/14 08:30	01/08/14 13:20	50
trans-1,3-Dichloropropene	<21		100	21	ug/Kg	☼	01/02/14 08:30	01/08/14 13:20	50
Trichloroethene	<19		50	19	ug/Kg	☼	01/02/14 08:30	01/08/14 13:20	50
Trichlorofluoromethane	<42		200	42	ug/Kg	☼	01/02/14 08:30	01/08/14 13:20	50
Vinyl chloride	<10		25	10	ug/Kg	☼	01/02/14 08:30	01/08/14 13:20	50
Xylenes, Total	<6.9		50	6.9	ug/Kg	☼	01/02/14 08:30	01/08/14 13:20	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*75 - 125*	*01/02/14 08:30*	*01/08/14 13:20*	*50*
4-Bromofluorobenzene (Surr)	*97*		*75 - 120*	*01/02/14 08:30*	*01/08/14 13:20*	*50*
Dibromofluoromethane	*104*		*75 - 120*	*01/02/14 08:30*	*01/08/14 13:20*	*50*
Toluene-d8 (Surr)	*107*		*75 - 120*	*01/02/14 08:30*	*01/08/14 13:20*	*50*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<6.9		19	6.9	ug/Kg	☼	01/07/14 09:29	01/08/14 14:55	1
PCB-1221	<8.6		19	8.6	ug/Kg	☼	01/07/14 09:29	01/08/14 14:55	1
PCB-1232	<8.5		19	8.5	ug/Kg	☼	01/07/14 09:29	01/08/14 14:55	1
PCB-1242	**16**	**J**	19	6.4	ug/Kg	☼	01/07/14 09:29	01/08/14 14:55	1
PCB-1248	<7.7		19	7.7	ug/Kg	☼	01/07/14 09:29	01/08/14 14:55	1
PCB-1254	<4.2		19	4.2	ug/Kg	☼	01/07/14 09:29	01/08/14 14:55	1
PCB-1260	<9.5		19	9.5	ug/Kg	☼	01/07/14 09:29	01/08/14 14:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*79*		*50 - 116*	*01/07/14 09:29*	*01/08/14 14:55*	*1*
DCB Decachlorobiphenyl	*111*		*48 - 142*	*01/07/14 09:29*	*01/08/14 14:55*	*1*

Client Sample ID: B-178 (6-7.5)

Lab Sample ID: 500-69547-20

Date Collected: 01/02/14 08:45
Matrix: Solid
Date Received: 01/03/14 10:30
Percent Solids: 82.8

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<36		210	36	ug/Kg	☼	01/02/14 08:45	01/08/14 13:45	50
1,1,1-Trichloroethane	<21		110	21	ug/Kg	☼	01/02/14 08:45	01/08/14 13:45	50
1,1,2,2-Tetrachloroethane	<25		110	25	ug/Kg	☼	01/02/14 08:45	01/08/14 13:45	50
1,1,2-Trichloroethane	<29		110	29	ug/Kg	☼	01/02/14 08:45	01/08/14 13:45	50
1,1-Dichloroethane	<19		110	19	ug/Kg	☼	01/02/14 08:45	01/08/14 13:45	50
1,1-Dichloroethene	<32		110	32	ug/Kg	☼	01/02/14 08:45	01/08/14 13:45	50
1,1-Dichloropropene	<36		110	36	ug/Kg	☼	01/02/14 08:45	01/08/14 13:45	50
1,2,3-Trichlorobenzene	<37		210	37	ug/Kg	☼	01/02/14 08:45	01/08/14 13:45	50
1,2,3-Trichloropropane	<60		210	60	ug/Kg	☼	01/02/14 08:45	01/08/14 13:45	50
1,2,4-Trichlorobenzene	<40		210	40	ug/Kg	☼	01/02/14 08:45	01/08/14 13:45	50
1,2,4-Trimethylbenzene	<22		210	22	ug/Kg	☼	01/02/14 08:45	01/08/14 13:45	50
1,2-Dibromo-3-Chloropropane	<92		210	92	ug/Kg	☼	01/02/14 08:45	01/08/14 13:45	50
1,2-Dibromoethane	<33		210	33	ug/Kg	☼	01/02/14 08:45	01/08/14 13:45	50
1,2-Dichlorobenzene	<22		210	22	ug/Kg	☼	01/02/14 08:45	01/08/14 13:45	50
1,2-Dichloroethane	<30		110	30	ug/Kg	☼	01/02/14 08:45	01/08/14 13:45	50
1,2-Dichloropropane	<21		110	21	ug/Kg	☼	01/02/14 08:45	01/08/14 13:45	50

Client: ARCADIS U.S., Inc.
Project/Site: MadisonKipp

TestAmerica Job ID: 500-69547-1

Client Sample ID: B-178 (6-7.5)
Date Collected: 01/02/14 08:45
Date Received: 01/03/14 10:30

Lab Sample ID: 500-69547-20
Matrix: Solid
Percent Solids: 82.8

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3,5-Trimethylbenzene	<22		210	22	ug/Kg	☼	01/02/14 08:45	01/08/14 13:45	50
1,3-Dichlorobenzene	<27		210	27	ug/Kg	☼	01/02/14 08:45	01/08/14 13:45	50
1,3-Dichloropropane	<14		110	14	ug/Kg	☼	01/02/14 08:45	01/08/14 13:45	50
1,4-Dichlorobenzene	<18		210	18	ug/Kg	☼	01/02/14 08:45	01/08/14 13:45	50
2,2-Dichloropropane	<33		110	33	ug/Kg	☼	01/02/14 08:45	01/08/14 13:45	50
2-Chlorotoluene	<22		110	22	ug/Kg	☼	01/02/14 08:45	01/08/14 13:45	50
4-Chlorotoluene	<21		110	21	ug/Kg	☼	01/02/14 08:45	01/08/14 13:45	50
Benzene	<7.8		26	7.8	ug/Kg	☼	01/02/14 08:45	01/08/14 13:45	50
Bromobenzene	<45		210	45	ug/Kg	☼	01/02/14 08:45	01/08/14 13:45	50
Bromochloromethane	<40		210	40	ug/Kg	☼	01/02/14 08:45	01/08/14 13:45	50
Bromodichloromethane	<36		210	36	ug/Kg	☼	01/02/14 08:45	01/08/14 13:45	50
Bromoform	<46		210	46	ug/Kg	☼	01/02/14 08:45	01/08/14 13:45	50
Bromomethane	<72		210	72	ug/Kg	☼	01/02/14 08:45	01/08/14 13:45	50
Carbon tetrachloride	<27		110	27	ug/Kg	☼	01/02/14 08:45	01/08/14 13:45	50
Chlorobenzene	<15		110	15	ug/Kg	☼	01/02/14 08:45	01/08/14 13:45	50
Chloroethane	<46		210	46	ug/Kg	☼	01/02/14 08:45	01/08/14 13:45	50
Chloroform	<22		110	22	ug/Kg	☼	01/02/14 08:45	01/08/14 13:45	50
Chloromethane	<49		210	49	ug/Kg	☼	01/02/14 08:45	01/08/14 13:45	50
cis-1,2-Dichloroethene	<13		110	13	ug/Kg	☼	01/02/14 08:45	01/08/14 13:45	50
cis-1,3-Dichloropropene	<19		110	19	ug/Kg	☼	01/02/14 08:45	01/08/14 13:45	50
Dibromochloromethane	<36		210	36	ug/Kg	☼	01/02/14 08:45	01/08/14 13:45	50
Dibromomethane	<50		210	50	ug/Kg	☼	01/02/14 08:45	01/08/14 13:45	50
Dichlorodifluoromethane	<54	*	210	54	ug/Kg	☼	01/02/14 08:45	01/08/14 13:45	50
Ethylbenzene	<13		26	13	ug/Kg	☼	01/02/14 08:45	01/08/14 13:45	50
Hexachlorobutadiene	<36		210	36	ug/Kg	☼	01/02/14 08:45	01/08/14 13:45	50
Isopropyl ether	<15		210	15	ug/Kg	☼	01/02/14 08:45	01/08/14 13:45	50
Isopropylbenzene	<26		210	26	ug/Kg	☼	01/02/14 08:45	01/08/14 13:45	50
Methyl tert-butyl ether	<45		210	45	ug/Kg	☼	01/02/14 08:45	01/08/14 13:45	50
Methylene Chloride	<72		530	72	ug/Kg	☼	01/02/14 08:45	01/08/14 13:45	50
Naphthalene	<52		210	52	ug/Kg	☼	01/02/14 08:45	01/08/14 13:45	50
n-Butylbenzene	<14		110	14	ug/Kg	☼	01/02/14 08:45	01/08/14 13:45	50
N-Propylbenzene	<18		210	18	ug/Kg	☼	01/02/14 08:45	01/08/14 13:45	50
p-Isopropyltoluene	<19		210	19	ug/Kg	☼	01/02/14 08:45	01/08/14 13:45	50
sec-Butylbenzene	<16		110	16	ug/Kg	☼	01/02/14 08:45	01/08/14 13:45	50
Styrene	<10		110	10	ug/Kg	☼	01/02/14 08:45	01/08/14 13:45	50
tert-Butylbenzene	<14		110	14	ug/Kg	☼	01/02/14 08:45	01/08/14 13:45	50
Tetrachloroethene	<18		110	18	ug/Kg	☼	01/02/14 08:45	01/08/14 13:45	50
Toluene	<12		26	12	ug/Kg	☼	01/02/14 08:45	01/08/14 13:45	50
trans-1,2-Dichloroethene	<26		110	26	ug/Kg	☼	01/02/14 08:45	01/08/14 13:45	50
trans-1,3-Dichloropropene	<22		110	22	ug/Kg	☼	01/02/14 08:45	01/08/14 13:45	50
Trichloroethene	<20		53	20	ug/Kg	☼	01/02/14 08:45	01/08/14 13:45	50
Trichlorofluoromethane	<44		210	44	ug/Kg	☼	01/02/14 08:45	01/08/14 13:45	50
Vinyl chloride	<11		26	11	ug/Kg	☼	01/02/14 08:45	01/08/14 13:45	50
Xylenes, Total	<7.2		53	7.2	ug/Kg	☼	01/02/14 08:45	01/08/14 13:45	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*99*		*75 - 125*	*01/02/14 08:45*	*01/08/14 13:45*	*50*
4-Bromofluorobenzene (Surr)	*97*		*75 - 120*	*01/02/14 08:45*	*01/08/14 13:45*	*50*
Dibromofluoromethane	*103*		*75 - 120*	*01/02/14 08:45*	*01/08/14 13:45*	*50*
Toluene-d8 (Surr)	*107*		*75 - 120*	*01/02/14 08:45*	*01/08/14 13:45*	*50*

Client Sample ID: B-178 (6-7.5)

Lab Sample ID: 500-69547-20

Date Collected: 01/02/14 08:45

Matrix: Solid

Date Received: 01/03/14 10:30

Percent Solids: 82.8

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<6.9		19	6.9	ug/Kg	☼	01/07/14 09:29	01/08/14 15:09	1
PCB-1221	<8.5		19	8.5	ug/Kg	☼	01/07/14 09:29	01/08/14 15:09	1
PCB-1232	<8.5		19	8.5	ug/Kg	☼	01/07/14 09:29	01/08/14 15:09	1
PCB-1242	<6.4		19	6.4	ug/Kg	☼	01/07/14 09:29	01/08/14 15:09	1
PCB-1248	<7.6		19	7.6	ug/Kg	☼	01/07/14 09:29	01/08/14 15:09	1
PCB-1254	<4.2		19	4.2	ug/Kg	☼	01/07/14 09:29	01/08/14 15:09	1
PCB-1260	<9.5		19	9.5	ug/Kg	☼	01/07/14 09:29	01/08/14 15:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*70*		*50 - 116*	*01/07/14 09:29*	*01/08/14 15:09*	*1*
DCB Decachlorobiphenyl	*114*		*48 - 142*	*01/07/14 09:29*	*01/08/14 15:09*	*1*

Client Sample ID: B-182 (5.1-7.1)

Lab Sample ID: 500-69547-21

Date Collected: 01/02/14 12:20

Matrix: Solid

Date Received: 01/03/14 10:30

Percent Solids: 92.5

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<34		190	34	ug/Kg	☼	01/02/14 12:20	01/08/14 14:10	50
1,1,1-Trichloroethane	<20		97	20	ug/Kg	☼	01/02/14 12:20	01/08/14 14:10	50
1,1,2,2-Tetrachloroethane	<23		97	23	ug/Kg	☼	01/02/14 12:20	01/08/14 14:10	50
1,1,2-Trichloroethane	<27		97	27	ug/Kg	☼	01/02/14 12:20	01/08/14 14:10	50
1,1-Dichloroethane	<18		97	18	ug/Kg	☼	01/02/14 12:20	01/08/14 14:10	50
1,1-Dichloroethene	<30		97	30	ug/Kg	☼	01/02/14 12:20	01/08/14 14:10	50
1,1-Dichloropropene	<33		97	33	ug/Kg	☼	01/02/14 12:20	01/08/14 14:10	50
1,2,3-Trichlorobenzene	<34		190	34	ug/Kg	☼	01/02/14 12:20	01/08/14 14:10	50
1,2,3-Trichloropropane	<56		190	56	ug/Kg	☼	01/02/14 12:20	01/08/14 14:10	50
1,2,4-Trichlorobenzene	**79**	**J**	190	37	ug/Kg	☼	01/02/14 12:20	01/08/14 14:10	50
1,2,4-Trimethylbenzene	**170**	**J**	190	21	ug/Kg	☼	01/02/14 12:20	01/08/14 14:10	50
1,2-Dibromo-3-Chloropropane	<85		190	85	ug/Kg	☼	01/02/14 12:20	01/08/14 14:10	50
1,2-Dibromoethane	<31		190	31	ug/Kg	☼	01/02/14 12:20	01/08/14 14:10	50
1,2-Dichlorobenzene	<20		190	20	ug/Kg	☼	01/02/14 12:20	01/08/14 14:10	50
1,2-Dichloroethane	<28		97	28	ug/Kg	☼	01/02/14 12:20	01/08/14 14:10	50
1,2-Dichloropropane	<19		97	19	ug/Kg	☼	01/02/14 12:20	01/08/14 14:10	50
1,3,5-Trimethylbenzene	**53**	**J**	190	20	ug/Kg	☼	01/02/14 12:20	01/08/14 14:10	50
1,3-Dichlorobenzene	<25		190	25	ug/Kg	☼	01/02/14 12:20	01/08/14 14:10	50
1,3-Dichloropropane	<13		97	13	ug/Kg	☼	01/02/14 12:20	01/08/14 14:10	50
1,4-Dichlorobenzene	<17		190	17	ug/Kg	☼	01/02/14 12:20	01/08/14 14:10	50
2,2-Dichloropropane	<31		97	31	ug/Kg	☼	01/02/14 12:20	01/08/14 14:10	50
2-Chlorotoluene	<20		97	20	ug/Kg	☼	01/02/14 12:20	01/08/14 14:10	50
4-Chlorotoluene	<19		97	19	ug/Kg	☼	01/02/14 12:20	01/08/14 14:10	50
Benzene	<7.2		24	7.2	ug/Kg	☼	01/02/14 12:20	01/08/14 14:10	50
Bromobenzene	<41		190	41	ug/Kg	☼	01/02/14 12:20	01/08/14 14:10	50
Bromochloromethane	<37		190	37	ug/Kg	☼	01/02/14 12:20	01/08/14 14:10	50
Bromodichloromethane	<33		190	33	ug/Kg	☼	01/02/14 12:20	01/08/14 14:10	50
Bromoform	<43		190	43	ug/Kg	☼	01/02/14 12:20	01/08/14 14:10	50
Bromomethane	<66		190	66	ug/Kg	☼	01/02/14 12:20	01/08/14 14:10	50
Carbon tetrachloride	<25		97	25	ug/Kg	☼	01/02/14 12:20	01/08/14 14:10	50
Chlorobenzene	<14		97	14	ug/Kg	☼	01/02/14 12:20	01/08/14 14:10	50
Chloroethane	<42		190	42	ug/Kg	☼	01/02/14 12:20	01/08/14 14:10	50

Client: ARCADIS U.S., Inc.
Project/Site: MadisonKipp

TestAmerica Job ID: 500-69547-1

Client Sample ID: B-182 (5.1-7.1)
Date Collected: 01/02/14 12:20
Date Received: 01/03/14 10:30

Lab Sample ID: 500-69547-21
Matrix: Solid
Percent Solids: 92.5

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroform	<20		97	20	ug/Kg	☼	01/02/14 12:20	01/08/14 14:10	50
Chloromethane	<45		190	45	ug/Kg	☼	01/02/14 12:20	01/08/14 14:10	50
cis-1,2-Dichloroethene	<12		97	12	ug/Kg	☼	01/02/14 12:20	01/08/14 14:10	50
cis-1,3-Dichloropropene	<17		97	17	ug/Kg	☼	01/02/14 12:20	01/08/14 14:10	50
Dibromochloromethane	<34		190	34	ug/Kg	☼	01/02/14 12:20	01/08/14 14:10	50
Dibromomethane	<47		190	47	ug/Kg	☼	01/02/14 12:20	01/08/14 14:10	50
Dichlorodifluoromethane	<50	*	190	50	ug/Kg	☼	01/02/14 12:20	01/08/14 14:10	50
Ethylbenzene	<12		24	12	ug/Kg	☼	01/02/14 12:20	01/08/14 14:10	50
Hexachlorobutadiene	<34		190	34	ug/Kg	☼	01/02/14 12:20	01/08/14 14:10	50
Isopropyl ether	<14		190	14	ug/Kg	☼	01/02/14 12:20	01/08/14 14:10	50
Isopropylbenzene	**100**	**J**	190	24	ug/Kg	☼	01/02/14 12:20	01/08/14 14:10	50
Methyl tert-butyl ether	<42		190	42	ug/Kg	☼	01/02/14 12:20	01/08/14 14:10	50
Methylene Chloride	<66		490	66	ug/Kg	☼	01/02/14 12:20	01/08/14 14:10	50
Naphthalene	<48		190	48	ug/Kg	☼	01/02/14 12:20	01/08/14 14:10	50
n-Butylbenzene	<13		97	13	ug/Kg	☼	01/02/14 12:20	01/08/14 14:10	50
N-Propylbenzene	<17		190	17	ug/Kg	☼	01/02/14 12:20	01/08/14 14:10	50
p-Isopropyltoluene	<18		190	18	ug/Kg	☼	01/02/14 12:20	01/08/14 14:10	50
sec-Butylbenzene	<15		97	15	ug/Kg	☼	01/02/14 12:20	01/08/14 14:10	50
Styrene	<9.6		97	9.6	ug/Kg	☼	01/02/14 12:20	01/08/14 14:10	50
tert-Butylbenzene	<13		97	13	ug/Kg	☼	01/02/14 12:20	01/08/14 14:10	50
Tetrachloroethene	<16		97	16	ug/Kg	☼	01/02/14 12:20	01/08/14 14:10	50
Toluene	<11		24	11	ug/Kg	☼	01/02/14 12:20	01/08/14 14:10	50
trans-1,2-Dichloroethene	<24		97	24	ug/Kg	☼	01/02/14 12:20	01/08/14 14:10	50
trans-1,3-Dichloropropene	<20		97	20	ug/Kg	☼	01/02/14 12:20	01/08/14 14:10	50
Trichloroethene	<18		49	18	ug/Kg	☼	01/02/14 12:20	01/08/14 14:10	50
Trichlorofluoromethane	<40		190	40	ug/Kg	☼	01/02/14 12:20	01/08/14 14:10	50
Vinyl chloride	<10		24	10	ug/Kg	☼	01/02/14 12:20	01/08/14 14:10	50
Xylenes, Total	<6.6		49	6.6	ug/Kg	☼	01/02/14 12:20	01/08/14 14:10	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*75 - 125*	*01/02/14 12:20*	*01/08/14 14:10*	*50*
4-Bromofluorobenzene (Surr)	*96*		*75 - 120*	*01/02/14 12:20*	*01/08/14 14:10*	*50*
Dibromofluoromethane	*103*		*75 - 120*	*01/02/14 12:20*	*01/08/14 14:10*	*50*
Toluene-d8 (Surr)	*105*		*75 - 120*	*01/02/14 12:20*	*01/08/14 14:10*	*50*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<6400		18000	6400	ug/Kg	☼	01/03/14 16:38	01/09/14 10:31	1000
PCB-1221	<7900		18000	7900	ug/Kg	☼	01/03/14 16:38	01/09/14 10:31	1000
PCB-1232	<7900		18000	7900	ug/Kg	☼	01/03/14 16:38	01/09/14 10:31	1000
PCB-1242	**280000**		18000	5900	ug/Kg	☼	01/03/14 16:38	01/09/14 10:31	1000
PCB-1248	<7100		18000	7100	ug/Kg	☼	01/03/14 16:38	01/09/14 10:31	1000
PCB-1254	<3900		18000	3900	ug/Kg	☼	01/03/14 16:38	01/09/14 10:31	1000
PCB-1260	<8900	*	18000	8900	ug/Kg	☼	01/03/14 16:38	01/09/14 10:31	1000

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*0*	*D*	*50 - 116*	*01/03/14 16:38*	*01/09/14 10:31*	*1000*
DCB Decachlorobiphenyl	*0*	*D*	*48 - 142*	*01/03/14 16:38*	*01/09/14 10:31*	*1000*

Client: ARCADIS U.S., Inc.
Project/Site: MadisonKipp

TestAmerica Job ID: 500-69547-1

Client Sample ID: B-182 (13.5-15.5)
Date Collected: 01/02/14 12:30
Date Received: 01/03/14 10:30

Lab Sample ID: 500-69547-22
Matrix: Solid
Percent Solids: 95.8

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<33		190	33	ug/Kg	☼	01/02/14 12:30	01/08/14 14:34	50
1,1,1-Trichloroethane	<19		94	19	ug/Kg	☼	01/02/14 12:30	01/08/14 14:34	50
1,1,2,2-Tetrachloroethane	<22		94	22	ug/Kg	☼	01/02/14 12:30	01/08/14 14:34	50
1,1,2-Trichloroethane	<26		94	26	ug/Kg	☼	01/02/14 12:30	01/08/14 14:34	50
1,1-Dichloroethane	<17		94	17	ug/Kg	☼	01/02/14 12:30	01/08/14 14:34	50
1,1-Dichloroethene	<29		94	29	ug/Kg	☼	01/02/14 12:30	01/08/14 14:34	50
1,1-Dichloropropene	<32		94	32	ug/Kg	☼	01/02/14 12:30	01/08/14 14:34	50
1,2,3-Trichlorobenzene	<33		190	33	ug/Kg	☼	01/02/14 12:30	01/08/14 14:34	50
1,2,3-Trichloropropane	<54		190	54	ug/Kg	☼	01/02/14 12:30	01/08/14 14:34	50
1,2,4-Trichlorobenzene	**130**	**J**	190	36	ug/Kg	☼	01/02/14 12:30	01/08/14 14:34	50
1,2,4-Trimethylbenzene	**230**		190	20	ug/Kg	☼	01/02/14 12:30	01/08/14 14:34	50
1,2-Dibromo-3-Chloropropane	<82		190	82	ug/Kg	☼	01/02/14 12:30	01/08/14 14:34	50
1,2-Dibromoethane	<30		190	30	ug/Kg	☼	01/02/14 12:30	01/08/14 14:34	50
1,2-Dichlorobenzene	<19		190	19	ug/Kg	☼	01/02/14 12:30	01/08/14 14:34	50
1,2-Dichloroethane	<27		94	27	ug/Kg	☼	01/02/14 12:30	01/08/14 14:34	50
1,2-Dichloropropane	<18		94	18	ug/Kg	☼	01/02/14 12:30	01/08/14 14:34	50
1,3,5-Trimethylbenzene	**61**	**J**	190	19	ug/Kg	☼	01/02/14 12:30	01/08/14 14:34	50
1,3-Dichlorobenzene	<24		190	24	ug/Kg	☼	01/02/14 12:30	01/08/14 14:34	50
1,3-Dichloropropane	<13		94	13	ug/Kg	☼	01/02/14 12:30	01/08/14 14:34	50
1,4-Dichlorobenzene	<16		190	16	ug/Kg	☼	01/02/14 12:30	01/08/14 14:34	50
2,2-Dichloropropane	<30		94	30	ug/Kg	☼	01/02/14 12:30	01/08/14 14:34	50
2-Chlorotoluene	<19		94	19	ug/Kg	☼	01/02/14 12:30	01/08/14 14:34	50
4-Chlorotoluene	<19		94	19	ug/Kg	☼	01/02/14 12:30	01/08/14 14:34	50
Benzene	<7.0		24	7.0	ug/Kg	☼	01/02/14 12:30	01/08/14 14:34	50
Bromobenzene	<40		190	40	ug/Kg	☼	01/02/14 12:30	01/08/14 14:34	50
Bromochloromethane	<36		190	36	ug/Kg	☼	01/02/14 12:30	01/08/14 14:34	50
Bromodichloromethane	<32		190	32	ug/Kg	☼	01/02/14 12:30	01/08/14 14:34	50
Bromoform	<41		190	41	ug/Kg	☼	01/02/14 12:30	01/08/14 14:34	50
Bromomethane	<64		190	64	ug/Kg	☼	01/02/14 12:30	01/08/14 14:34	50
Carbon tetrachloride	<24		94	24	ug/Kg	☼	01/02/14 12:30	01/08/14 14:34	50
Chlorobenzene	<13		94	13	ug/Kg	☼	01/02/14 12:30	01/08/14 14:34	50
Chloroethane	<41		190	41	ug/Kg	☼	01/02/14 12:30	01/08/14 14:34	50
Chloroform	<19		94	19	ug/Kg	☼	01/02/14 12:30	01/08/14 14:34	50
Chloromethane	<43		190	43	ug/Kg	☼	01/02/14 12:30	01/08/14 14:34	50
cis-1,2-Dichloroethene	**390**		94	12	ug/Kg	☼	01/02/14 12:30	01/08/14 14:34	50
cis-1,3-Dichloropropene	<17		94	17	ug/Kg	☼	01/02/14 12:30	01/08/14 14:34	50
Dibromochloromethane	<33		190	33	ug/Kg	☼	01/02/14 12:30	01/08/14 14:34	50
Dibromomethane	<45		190	45	ug/Kg	☼	01/02/14 12:30	01/08/14 14:34	50
Dichlorodifluoromethane	<48	*	190	48	ug/Kg	☼	01/02/14 12:30	01/08/14 14:34	50
Ethylbenzene	<12		24	12	ug/Kg	☼	01/02/14 12:30	01/08/14 14:34	50
Hexachlorobutadiene	<33		190	33	ug/Kg	☼	01/02/14 12:30	01/08/14 14:34	50
Isopropyl ether	<14		190	14	ug/Kg	☼	01/02/14 12:30	01/08/14 14:34	50
Isopropylbenzene	**64**	**J**	190	24	ug/Kg	☼	01/02/14 12:30	01/08/14 14:34	50
Methyl tert-butyl ether	<40		190	40	ug/Kg	☼	01/02/14 12:30	01/08/14 14:34	50
Methylene Chloride	<64		470	64	ug/Kg	☼	01/02/14 12:30	01/08/14 14:34	50
Naphthalene	**77**	**J**	190	46	ug/Kg	☼	01/02/14 12:30	01/08/14 14:34	50
n-Butylbenzene	**76**	**J**	94	12	ug/Kg	☼	01/02/14 12:30	01/08/14 14:34	50
N-Propylbenzene	<16		190	16	ug/Kg	☼	01/02/14 12:30	01/08/14 14:34	50
p-Isopropyltoluene	<17		190	17	ug/Kg	☼	01/02/14 12:30	01/08/14 14:34	50

Client Sample ID: B-182 (13.5-15.5)

Lab Sample ID: 500-69547-22
Date Collected: 01/02/14 12:30
Matrix: Solid
Date Received: 01/03/14 10:30
Percent Solids: 95.8

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	<14		94	14	ug/Kg	☼	01/02/14 12:30	01/08/14 14:34	50
Styrene	<9.3		94	9.3	ug/Kg	☼	01/02/14 12:30	01/08/14 14:34	50
tert-Butylbenzene	<13		94	13	ug/Kg	☼	01/02/14 12:30	01/08/14 14:34	50
Tetrachloroethene	**1900**		94	16	ug/Kg	☼	01/02/14 12:30	01/08/14 14:34	50
Toluene	**64**		24	11	ug/Kg	☼	01/02/14 12:30	01/08/14 14:34	50
trans-1,2-Dichloroethene	<24		94	24	ug/Kg	☼	01/02/14 12:30	01/08/14 14:34	50
trans-1,3-Dichloropropene	<20		94	20	ug/Kg	☼	01/02/14 12:30	01/08/14 14:34	50
Trichloroethene	**180**		47	17	ug/Kg	☼	01/02/14 12:30	01/08/14 14:34	50
Trichlorofluoromethane	<39		190	39	ug/Kg	☼	01/02/14 12:30	01/08/14 14:34	50
Vinyl chloride	<9.8		24	9.8	ug/Kg	☼	01/02/14 12:30	01/08/14 14:34	50
Xylenes, Total	<6.4		47	6.4	ug/Kg	☼	01/02/14 12:30	01/08/14 14:34	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*106*		*75 - 125*	*01/02/14 12:30*	*01/08/14 14:34*	*50*
4-Bromofluorobenzene (Surr)	*98*		*75 - 120*	*01/02/14 12:30*	*01/08/14 14:34*	*50*
Dibromofluoromethane	*103*		*75 - 120*	*01/02/14 12:30*	*01/08/14 14:34*	*50*
Toluene-d8 (Surr)	*107*		*75 - 120*	*01/02/14 12:30*	*01/08/14 14:34*	*50*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<60000		170000	60000	ug/Kg	☼	01/03/14 16:38	01/09/14 14:47	10000
PCB-1221	<75000		170000	75000	ug/Kg	☼	01/03/14 16:38	01/09/14 14:47	10000
PCB-1232	<74000		170000	74000	ug/Kg	☼	01/03/14 16:38	01/09/14 14:47	10000
PCB-1242	**2300000**		170000	56000	ug/Kg	☼	01/03/14 16:38	01/09/14 14:47	10000
PCB-1248	<67000		170000	67000	ug/Kg	☼	01/03/14 16:38	01/09/14 14:47	10000
PCB-1254	<37000		170000	37000	ug/Kg	☼	01/03/14 16:38	01/09/14 14:47	10000
PCB-1260	<83000	*	170000	83000	ug/Kg	☼	01/03/14 16:38	01/09/14 14:47	10000

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*0*	*D*	*50 - 116*	*01/03/14 16:38*	*01/09/14 14:47*	*10000*
DCB Decachlorobiphenyl	*0*	*D*	*48 - 142*	*01/03/14 16:38*	*01/09/14 14:47*	*10000*

Client Sample ID: B-148 (10-12)

Lab Sample ID: 500-69547-23
Date Collected: 01/02/14 14:00
Matrix: Solid
Date Received: 01/03/14 10:30
Percent Solids: 95.1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<30		170	30	ug/Kg	☼	01/02/14 14:00	01/08/14 14:59	50
1,1,1-Trichloroethane	<17		86	17	ug/Kg	☼	01/02/14 14:00	01/08/14 14:59	50
1,1,2,2-Tetrachloroethane	<20		86	20	ug/Kg	☼	01/02/14 14:00	01/08/14 14:59	50
1,1,2-Trichloroethane	<24		86	24	ug/Kg	☼	01/02/14 14:00	01/08/14 14:59	50
1,1-Dichloroethane	<16		86	16	ug/Kg	☼	01/02/14 14:00	01/08/14 14:59	50
1,1-Dichloroethene	<26		86	26	ug/Kg	☼	01/02/14 14:00	01/08/14 14:59	50
1,1-Dichloropropene	<30		86	30	ug/Kg	☼	01/02/14 14:00	01/08/14 14:59	50
1,2,3-Trichlorobenzene	<30		170	30	ug/Kg	☼	01/02/14 14:00	01/08/14 14:59	50
1,2,3-Trichloropropane	<49		170	49	ug/Kg	☼	01/02/14 14:00	01/08/14 14:59	50
1,2,4-Trichlorobenzene	**160**	**J**	170	33	ug/Kg	☼	01/02/14 14:00	01/08/14 14:59	50
1,2,4-Trimethylbenzene	**200**		170	18	ug/Kg	☼	01/02/14 14:00	01/08/14 14:59	50
1,2-Dibromo-3-Chloropropane	<75		170	75	ug/Kg	☼	01/02/14 14:00	01/08/14 14:59	50

Client: ARCADIS U.S., Inc.
Project/Site: MadisonKipp

TestAmerica Job ID: 500-69547-1

Client Sample ID: B-148 (10-12)
Date Collected: 01/02/14 14:00
Date Received: 01/03/14 10:30

Lab Sample ID: 500-69547-23
Matrix: Solid
Percent Solids: 95.1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane	<27		170	27	ug/Kg	☼	01/02/14 14:00	01/08/14 14:59	50
1,2-Dichlorobenzene	<18		170	18	ug/Kg	☼	01/02/14 14:00	01/08/14 14:59	50
1,2-Dichloroethane	<25		86	25	ug/Kg	☼	01/02/14 14:00	01/08/14 14:59	50
1,2-Dichloropropane	<17		86	17	ug/Kg	☼	01/02/14 14:00	01/08/14 14:59	50
1,3,5-Trimethylbenzene	**53**	**J**	170	18	ug/Kg	☼	01/02/14 14:00	01/08/14 14:59	50
1,3-Dichlorobenzene	<22		170	22	ug/Kg	☼	01/02/14 14:00	01/08/14 14:59	50
1,3-Dichloropropane	<12		86	12	ug/Kg	☼	01/02/14 14:00	01/08/14 14:59	50
1,4-Dichlorobenzene	<15		170	15	ug/Kg	☼	01/02/14 14:00	01/08/14 14:59	50
2,2-Dichloropropane	<27		86	27	ug/Kg	☼	01/02/14 14:00	01/08/14 14:59	50
2-Chlorotoluene	<18		86	18	ug/Kg	☼	01/02/14 14:00	01/08/14 14:59	50
4-Chlorotoluene	<17		86	17	ug/Kg	☼	01/02/14 14:00	01/08/14 14:59	50
Benzene	<6.4		22	6.4	ug/Kg	☼	01/02/14 14:00	01/08/14 14:59	50
Bromobenzene	<37		170	37	ug/Kg	☼	01/02/14 14:00	01/08/14 14:59	50
Bromochloromethane	<33		170	33	ug/Kg	☼	01/02/14 14:00	01/08/14 14:59	50
Bromodichloromethane	<29		170	29	ug/Kg	☼	01/02/14 14:00	01/08/14 14:59	50
Bromoform	<38		170	38	ug/Kg	☼	01/02/14 14:00	01/08/14 14:59	50
Bromomethane	<59		170	59	ug/Kg	☼	01/02/14 14:00	01/08/14 14:59	50
Carbon tetrachloride	<22		86	22	ug/Kg	☼	01/02/14 14:00	01/08/14 14:59	50
Chlorobenzene	<12		86	12	ug/Kg	☼	01/02/14 14:00	01/08/14 14:59	50
Chloroethane	<37		170	37	ug/Kg	☼	01/02/14 14:00	01/08/14 14:59	50
Chloroform	<18		86	18	ug/Kg	☼	01/02/14 14:00	01/08/14 14:59	50
Chloromethane	<40		170	40	ug/Kg	☼	01/02/14 14:00	01/08/14 14:59	50
cis-1,2-Dichloroethene	<11		86	11	ug/Kg	☼	01/02/14 14:00	01/08/14 14:59	50
cis-1,3-Dichloropropene	<15		86	15	ug/Kg	☼	01/02/14 14:00	01/08/14 14:59	50
Dibromochloromethane	<30		170	30	ug/Kg	☼	01/02/14 14:00	01/08/14 14:59	50
Dibromomethane	<41		170	41	ug/Kg	☼	01/02/14 14:00	01/08/14 14:59	50
Dichlorodifluoromethane	<44	*	170	44	ug/Kg	☼	01/02/14 14:00	01/08/14 14:59	50
Ethylbenzene	<11		22	11	ug/Kg	☼	01/02/14 14:00	01/08/14 14:59	50
Hexachlorobutadiene	<30		170	30	ug/Kg	☼	01/02/14 14:00	01/08/14 14:59	50
Isopropyl ether	<13		170	13	ug/Kg	☼	01/02/14 14:00	01/08/14 14:59	50
Isopropylbenzene	<22		170	22	ug/Kg	☼	01/02/14 14:00	01/08/14 14:59	50
Methyl tert-butyl ether	<37		170	37	ug/Kg	☼	01/02/14 14:00	01/08/14 14:59	50
Methylene Chloride	<59		430	59	ug/Kg	☼	01/02/14 14:00	01/08/14 14:59	50
Naphthalene	**89**	**J**	170	43	ug/Kg	☼	01/02/14 14:00	01/08/14 14:59	50
n-Butylbenzene	**59**	**J**	86	11	ug/Kg	☼	01/02/14 14:00	01/08/14 14:59	50
N-Propylbenzene	<15		170	15	ug/Kg	☼	01/02/14 14:00	01/08/14 14:59	50
p-Isopropyltoluene	<16		170	16	ug/Kg	☼	01/02/14 14:00	01/08/14 14:59	50
sec-Butylbenzene	<13		86	13	ug/Kg	☼	01/02/14 14:00	01/08/14 14:59	50
Styrene	<8.5		86	8.5	ug/Kg	☼	01/02/14 14:00	01/08/14 14:59	50
tert-Butylbenzene	<12		86	12	ug/Kg	☼	01/02/14 14:00	01/08/14 14:59	50
Tetrachloroethene	**1400**		86	14	ug/Kg	☼	01/02/14 14:00	01/08/14 14:59	50
Toluene	<9.9		22	9.9	ug/Kg	☼	01/02/14 14:00	01/08/14 14:59	50
trans-1,2-Dichloroethene	<22		86	22	ug/Kg	☼	01/02/14 14:00	01/08/14 14:59	50
trans-1,3-Dichloropropene	<18		86	18	ug/Kg	☼	01/02/14 14:00	01/08/14 14:59	50
Trichloroethene	<16		43	16	ug/Kg	☼	01/02/14 14:00	01/08/14 14:59	50
Trichlorofluoromethane	<36		170	36	ug/Kg	☼	01/02/14 14:00	01/08/14 14:59	50
Vinyl chloride	<9.0		22	9.0	ug/Kg	☼	01/02/14 14:00	01/08/14 14:59	50
Xylenes, Total	<5.9		43	5.9	ug/Kg	☼	01/02/14 14:00	01/08/14 14:59	50

Client Sample ID: B-148 (10-12)

Lab Sample ID: 500-69547-23

Date Collected: 01/02/14 14:00
Matrix: Solid
Date Received: 01/03/14 10:30
Percent Solids: 95.1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	106		75 - 125	01/02/14 14:00	01/08/14 14:59	50
4-Bromofluorobenzene (Surr)	98		75 - 120	01/02/14 14:00	01/08/14 14:59	50
Dibromofluoromethane	105		75 - 120	01/02/14 14:00	01/08/14 14:59	50
Toluene-d8 (Surr)	107		75 - 120	01/02/14 14:00	01/08/14 14:59	50

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<31000		87000	31000	ug/Kg	☼	01/03/14 16:38	01/09/14 11:27	5000
PCB-1221	<38000		87000	38000	ug/Kg	☼	01/03/14 16:38	01/09/14 11:27	5000
PCB-1232	<38000		87000	38000	ug/Kg	☼	01/03/14 16:38	01/09/14 11:27	5000
PCB-1242	1600000		87000	29000	ug/Kg	☼	01/03/14 16:38	01/09/14 11:27	5000
PCB-1248	<34000		87000	34000	ug/Kg	☼	01/03/14 16:38	01/09/14 11:27	5000
PCB-1254	<19000		87000	19000	ug/Kg	☼	01/03/14 16:38	01/09/14 11:27	5000
PCB-1260	<43000	*	87000	43000	ug/Kg	☼	01/03/14 16:38	01/09/14 11:27	5000

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	0	D	50 - 116	01/03/14 16:38	01/09/14 11:27	5000
DCB Decachlorobiphenyl	0	D	48 - 142	01/03/14 16:38	01/09/14 11:27	5000

Client Sample ID: B-148 (17.5-19.5)

Lab Sample ID: 500-69547-24

Date Collected: 01/02/14 14:10
Matrix: Solid
Date Received: 01/03/14 10:30
Percent Solids: 93.9

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<31		180	31	ug/Kg	☼	01/02/14 14:10	01/08/14 15:24	50
1,1,1-Trichloroethane	<18		89	18	ug/Kg	☼	01/02/14 14:10	01/08/14 15:24	50
1,1,2,2-Tetrachloroethane	<21		89	21	ug/Kg	☼	01/02/14 14:10	01/08/14 15:24	50
1,1,2-Trichloroethane	<25		89	25	ug/Kg	☼	01/02/14 14:10	01/08/14 15:24	50
1,1-Dichloroethane	<16		89	16	ug/Kg	☼	01/02/14 14:10	01/08/14 15:24	50
1,1-Dichloroethene	<27		89	27	ug/Kg	☼	01/02/14 14:10	01/08/14 15:24	50
1,1-Dichloropropene	<30		89	30	ug/Kg	☼	01/02/14 14:10	01/08/14 15:24	50
1,2,3-Trichlorobenzene	<31		180	31	ug/Kg	☼	01/02/14 14:10	01/08/14 15:24	50
1,2,3-Trichloropropane	<51		180	51	ug/Kg	☼	01/02/14 14:10	01/08/14 15:24	50
1,2,4-Trichlorobenzene	<33		180	33	ug/Kg	☼	01/02/14 14:10	01/08/14 15:24	50
1,2,4-Trimethylbenzene	<19		180	19	ug/Kg	☼	01/02/14 14:10	01/08/14 15:24	50
1,2-Dibromo-3-Chloropropane	<77		180	77	ug/Kg	☼	01/02/14 14:10	01/08/14 15:24	50
1,2-Dibromoethane	<28		180	28	ug/Kg	☼	01/02/14 14:10	01/08/14 15:24	50
1,2-Dichlorobenzene	<18		180	18	ug/Kg	☼	01/02/14 14:10	01/08/14 15:24	50
1,2-Dichloroethane	<25		89	25	ug/Kg	☼	01/02/14 14:10	01/08/14 15:24	50
1,2-Dichloropropane	<17		89	17	ug/Kg	☼	01/02/14 14:10	01/08/14 15:24	50
1,3,5-Trimethylbenzene	<18		180	18	ug/Kg	☼	01/02/14 14:10	01/08/14 15:24	50
1,3-Dichlorobenzene	<23		180	23	ug/Kg	☼	01/02/14 14:10	01/08/14 15:24	50
1,3-Dichloropropane	<12		89	12	ug/Kg	☼	01/02/14 14:10	01/08/14 15:24	50
1,4-Dichlorobenzene	<15		180	15	ug/Kg	☼	01/02/14 14:10	01/08/14 15:24	50
2,2-Dichloropropane	<28		89	28	ug/Kg	☼	01/02/14 14:10	01/08/14 15:24	50
2-Chlorotoluene	<18		89	18	ug/Kg	☼	01/02/14 14:10	01/08/14 15:24	50
4-Chlorotoluene	<17		89	17	ug/Kg	☼	01/02/14 14:10	01/08/14 15:24	50
Benzene	<6.6		22	6.6	ug/Kg	☼	01/02/14 14:10	01/08/14 15:24	50
Bromobenzene	<38		180	38	ug/Kg	☼	01/02/14 14:10	01/08/14 15:24	50
Bromochloromethane	<33		180	33	ug/Kg	☼	01/02/14 14:10	01/08/14 15:24	50

Client: ARCADIS U.S., Inc.
Project/Site: MadisonKipp

TestAmerica Job ID: 500-69547-1

Client Sample ID: B-148 (17.5-19.5)
Date Collected: 01/02/14 14:10
Date Received: 01/03/14 10:30

Lab Sample ID: 500-69547-24
Matrix: Solid
Percent Solids: 93.9

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromodichloromethane	<30		180	30	ug/Kg	☼	01/02/14 14:10	01/08/14 15:24	50
Bromoform	<39		180	39	ug/Kg	☼	01/02/14 14:10	01/08/14 15:24	50
Bromomethane	<60		180	60	ug/Kg	☼	01/02/14 14:10	01/08/14 15:24	50
Carbon tetrachloride	<23		89	23	ug/Kg	☼	01/02/14 14:10	01/08/14 15:24	50
Chlorobenzene	<13		89	13	ug/Kg	☼	01/02/14 14:10	01/08/14 15:24	50
Chloroethane	<39		180	39	ug/Kg	☼	01/02/14 14:10	01/08/14 15:24	50
Chloroform	<18		89	18	ug/Kg	☼	01/02/14 14:10	01/08/14 15:24	50
Chloromethane	<41		180	41	ug/Kg	☼	01/02/14 14:10	01/08/14 15:24	50
cis-1,2-Dichloroethene	<11		89	11	ug/Kg	☼	01/02/14 14:10	01/08/14 15:24	50
cis-1,3-Dichloropropene	<16		89	16	ug/Kg	☼	01/02/14 14:10	01/08/14 15:24	50
Dibromochloromethane	<31		180	31	ug/Kg	☼	01/02/14 14:10	01/08/14 15:24	50
Dibromomethane	<43		180	43	ug/Kg	☼	01/02/14 14:10	01/08/14 15:24	50
Dichlorodifluoromethane	<45	*	180	45	ug/Kg	☼	01/02/14 14:10	01/08/14 15:24	50
Ethylbenzene	<11		22	11	ug/Kg	☼	01/02/14 14:10	01/08/14 15:24	50
Hexachlorobutadiene	<31		180	31	ug/Kg	☼	01/02/14 14:10	01/08/14 15:24	50
Isopropyl ether	<13		180	13	ug/Kg	☼	01/02/14 14:10	01/08/14 15:24	50
Isopropylbenzene	<22		180	22	ug/Kg	☼	01/02/14 14:10	01/08/14 15:24	50
Methyl tert-butyl ether	<38		180	38	ug/Kg	☼	01/02/14 14:10	01/08/14 15:24	50
Methylene Chloride	<61		440	61	ug/Kg	☼	01/02/14 14:10	01/08/14 15:24	50
Naphthalene	<44		180	44	ug/Kg	☼	01/02/14 14:10	01/08/14 15:24	50
n-Butylbenzene	<11		89	11	ug/Kg	☼	01/02/14 14:10	01/08/14 15:24	50
N-Propylbenzene	<16		180	16	ug/Kg	☼	01/02/14 14:10	01/08/14 15:24	50
p-Isopropyltoluene	<16		180	16	ug/Kg	☼	01/02/14 14:10	01/08/14 15:24	50
sec-Butylbenzene	<14		89	14	ug/Kg	☼	01/02/14 14:10	01/08/14 15:24	50
Styrene	<8.8		89	8.8	ug/Kg	☼	01/02/14 14:10	01/08/14 15:24	50
tert-Butylbenzene	<12		89	12	ug/Kg	☼	01/02/14 14:10	01/08/14 15:24	50
Tetrachloroethene	<15		89	15	ug/Kg	☼	01/02/14 14:10	01/08/14 15:24	50
Toluene	<10		22	10	ug/Kg	☼	01/02/14 14:10	01/08/14 15:24	50
trans-1,2-Dichloroethene	<22		89	22	ug/Kg	☼	01/02/14 14:10	01/08/14 15:24	50
trans-1,3-Dichloropropene	<18		89	18	ug/Kg	☼	01/02/14 14:10	01/08/14 15:24	50
Trichloroethene	<16		44	16	ug/Kg	☼	01/02/14 14:10	01/08/14 15:24	50
Trichlorofluoromethane	<37		180	37	ug/Kg	☼	01/02/14 14:10	01/08/14 15:24	50
Vinyl chloride	<9.2		22	9.2	ug/Kg	☼	01/02/14 14:10	01/08/14 15:24	50
Xylenes, Total	<6.1		44	6.1	ug/Kg	☼	01/02/14 14:10	01/08/14 15:24	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*75 - 125*	*01/02/14 14:10*	*01/08/14 15:24*	*50*
4-Bromofluorobenzene (Surr)	*98*		*75 - 120*	*01/02/14 14:10*	*01/08/14 15:24*	*50*
Dibromofluoromethane	*103*		*75 - 120*	*01/02/14 14:10*	*01/08/14 15:24*	*50*
Toluene-d8 (Surr)	*108*		*75 - 120*	*01/02/14 14:10*	*01/08/14 15:24*	*50*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<31		88	31	ug/Kg	☼	01/03/14 16:38	01/09/14 11:41	5
PCB-1221	<39		88	39	ug/Kg	☼	01/03/14 16:38	01/09/14 11:41	5
PCB-1232	<38		88	38	ug/Kg	☼	01/03/14 16:38	01/09/14 11:41	5
PCB-1242	**1100**		88	29	ug/Kg	☼	01/03/14 16:38	01/09/14 11:41	5
PCB-1248	<35		88	35	ug/Kg	☼	01/03/14 16:38	01/09/14 11:41	5
PCB-1254	<19		88	19	ug/Kg	☼	01/03/14 16:38	01/09/14 11:41	5
PCB-1260	<43	*	88	43	ug/Kg	☼	01/03/14 16:38	01/09/14 11:41	5

Client Sample ID: B-148 (17.5-19.5)
Date Collected: 01/02/14 14:10
Date Received: 01/03/14 10:30

Lab Sample ID: 500-69547-24
Matrix: Solid
Percent Solids: 93.9

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	*76*		*50 - 116*	*01/03/14 16:38*	*01/09/14 11:41*	*5*
DCB Decachlorobiphenyl	*95*		*48 - 142*	*01/03/14 16:38*	*01/09/14 11:41*	*5*

Client Sample ID: B-180 (0-2)
Date Collected: 01/02/14 14:40
Date Received: 01/03/14 10:30

Lab Sample ID: 500-69547-25
Matrix: Solid
Percent Solids: 80.3

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<42		240	42	ug/Kg	☼	01/02/14 14:40	01/08/14 15:48	50
1,1,1-Trichloroethane	<24		120	24	ug/Kg	☼	01/02/14 14:40	01/08/14 15:48	50
1,1,2,2-Tetrachloroethane	<28		120	28	ug/Kg	☼	01/02/14 14:40	01/08/14 15:48	50
1,1,2-Trichloroethane	<34		120	34	ug/Kg	☼	01/02/14 14:40	01/08/14 15:48	50
1,1-Dichloroethane	<22		120	22	ug/Kg	☼	01/02/14 14:40	01/08/14 15:48	50
1,1-Dichloroethene	<37		120	37	ug/Kg	☼	01/02/14 14:40	01/08/14 15:48	50
1,1-Dichloropropene	<41		120	41	ug/Kg	☼	01/02/14 14:40	01/08/14 15:48	50
1,2,3-Trichlorobenzene	<42		240	42	ug/Kg	☼	01/02/14 14:40	01/08/14 15:48	50
1,2,3-Trichloropropane	<69		240	69	ug/Kg	☼	01/02/14 14:40	01/08/14 15:48	50
1,2,4-Trichlorobenzene	<46		240	46	ug/Kg	☼	01/02/14 14:40	01/08/14 15:48	50
1,2,4-Trimethylbenzene	**170**	**J**	240	25	ug/Kg	☼	01/02/14 14:40	01/08/14 15:48	50
1,2-Dibromo-3-Chloropropane	<110		240	110	ug/Kg	☼	01/02/14 14:40	01/08/14 15:48	50
1,2-Dibromoethane	<38		240	38	ug/Kg	☼	01/02/14 14:40	01/08/14 15:48	50
1,2-Dichlorobenzene	<25		240	25	ug/Kg	☼	01/02/14 14:40	01/08/14 15:48	50
1,2-Dichloroethane	<34		120	34	ug/Kg	☼	01/02/14 14:40	01/08/14 15:48	50
1,2-Dichloropropane	<24		120	24	ug/Kg	☼	01/02/14 14:40	01/08/14 15:48	50
1,3,5-Trimethylbenzene	**69**	**J**	240	25	ug/Kg	☼	01/02/14 14:40	01/08/14 15:48	50
1,3-Dichlorobenzene	<31		240	31	ug/Kg	☼	01/02/14 14:40	01/08/14 15:48	50
1,3-Dichloropropane	<16		120	16	ug/Kg	☼	01/02/14 14:40	01/08/14 15:48	50
1,4-Dichlorobenzene	<21		240	21	ug/Kg	☼	01/02/14 14:40	01/08/14 15:48	50
2,2-Dichloropropane	<38		120	38	ug/Kg	☼	01/02/14 14:40	01/08/14 15:48	50
2-Chlorotoluene	<25		120	25	ug/Kg	☼	01/02/14 14:40	01/08/14 15:48	50
4-Chlorotoluene	<24		120	24	ug/Kg	☼	01/02/14 14:40	01/08/14 15:48	50
Benzene	<8.9		30	8.9	ug/Kg	☼	01/02/14 14:40	01/08/14 15:48	50
Bromobenzene	<51		240	51	ug/Kg	☼	01/02/14 14:40	01/08/14 15:48	50
Bromochloromethane	<46		240	46	ug/Kg	☼	01/02/14 14:40	01/08/14 15:48	50
Bromodichloromethane	<41		240	41	ug/Kg	☼	01/02/14 14:40	01/08/14 15:48	50
Bromoform	<53		240	53	ug/Kg	☼	01/02/14 14:40	01/08/14 15:48	50
Bromomethane	<82		240	82	ug/Kg	☼	01/02/14 14:40	01/08/14 15:48	50
Carbon tetrachloride	<31		120	31	ug/Kg	☼	01/02/14 14:40	01/08/14 15:48	50
Chlorobenzene	<17		120	17	ug/Kg	☼	01/02/14 14:40	01/08/14 15:48	50
Chloroethane	<52		240	52	ug/Kg	☼	01/02/14 14:40	01/08/14 15:48	50
Chloroform	<25		120	25	ug/Kg	☼	01/02/14 14:40	01/08/14 15:48	50
Chloromethane	<56		240	56	ug/Kg	☼	01/02/14 14:40	01/08/14 15:48	50
cis-1,2-Dichloroethene	<15		120	15	ug/Kg	☼	01/02/14 14:40	01/08/14 15:48	50
cis-1,3-Dichloropropene	<21		120	21	ug/Kg	☼	01/02/14 14:40	01/08/14 15:48	50
Dibromochloromethane	<42		240	42	ug/Kg	☼	01/02/14 14:40	01/08/14 15:48	50
Dibromomethane	<58		240	58	ug/Kg	☼	01/02/14 14:40	01/08/14 15:48	50
Dichlorodifluoromethane	<62	*	240	62	ug/Kg	☼	01/02/14 14:40	01/08/14 15:48	50
Ethylbenzene	<15		30	15	ug/Kg	☼	01/02/14 14:40	01/08/14 15:48	50
Hexachlorobutadiene	<42		240	42	ug/Kg	☼	01/02/14 14:40	01/08/14 15:48	50

Client Sample ID: B-180 (0-2)

Lab Sample ID: 500-69547-25

Date Collected: 01/02/14 14:40
Matrix: Solid
Date Received: 01/03/14 10:30
Percent Solids: 80.3

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isopropyl ether	<18		240	18	ug/Kg	☼	01/02/14 14:40	01/08/14 15:48	50
Isopropylbenzene	**96**	**J**	240	30	ug/Kg	☼	01/02/14 14:40	01/08/14 15:48	50
Methyl tert-butyl ether	<52		240	52	ug/Kg	☼	01/02/14 14:40	01/08/14 15:48	50
Methylene Chloride	<82		600	82	ug/Kg	☼	01/02/14 14:40	01/08/14 15:48	50
Naphthalene	<60		240	60	ug/Kg	☼	01/02/14 14:40	01/08/14 15:48	50
n-Butylbenzene	<16		120	16	ug/Kg	☼	01/02/14 14:40	01/08/14 15:48	50
N-Propylbenzene	<21		240	21	ug/Kg	☼	01/02/14 14:40	01/08/14 15:48	50
p-Isopropyltoluene	<22		240	22	ug/Kg	☼	01/02/14 14:40	01/08/14 15:48	50
sec-Butylbenzene	<19		120	19	ug/Kg	☼	01/02/14 14:40	01/08/14 15:48	50
Styrene	<12		120	12	ug/Kg	☼	01/02/14 14:40	01/08/14 15:48	50
tert-Butylbenzene	<16		120	16	ug/Kg	☼	01/02/14 14:40	01/08/14 15:48	50
Tetrachloroethene	<20		120	20	ug/Kg	☼	01/02/14 14:40	01/08/14 15:48	50
Toluene	<14		30	14	ug/Kg	☼	01/02/14 14:40	01/08/14 15:48	50
trans-1,2-Dichloroethene	<30		120	30	ug/Kg	☼	01/02/14 14:40	01/08/14 15:48	50
trans-1,3-Dichloropropene	<25		120	25	ug/Kg	☼	01/02/14 14:40	01/08/14 15:48	50
Trichloroethene	<22		60	22	ug/Kg	☼	01/02/14 14:40	01/08/14 15:48	50
Trichlorofluoromethane	<50		240	50	ug/Kg	☼	01/02/14 14:40	01/08/14 15:48	50
Vinyl chloride	<13		30	13	ug/Kg	☼	01/02/14 14:40	01/08/14 15:48	50
Xylenes, Total	<8.2		60	8.2	ug/Kg	☼	01/02/14 14:40	01/08/14 15:48	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*107*		*75 - 125*	*01/02/14 14:40*	*01/08/14 15:48*	*50*
4-Bromofluorobenzene (Surr)	*103*		*75 - 120*	*01/02/14 14:40*	*01/08/14 15:48*	*50*
Dibromofluoromethane	*105*		*75 - 120*	*01/02/14 14:40*	*01/08/14 15:48*	*50*
Toluene-d8 (Surr)	*108*		*75 - 120*	*01/02/14 14:40*	*01/08/14 15:48*	*50*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<1400		4100	1400	ug/Kg	☼	01/03/14 16:38	01/09/14 15:01	200
PCB-1221	<1800		4100	1800	ug/Kg	☼	01/03/14 16:38	01/09/14 15:01	200
PCB-1232	<1800		4100	1800	ug/Kg	☼	01/03/14 16:38	01/09/14 15:01	200
PCB-1242	**45000**		4100	1300	ug/Kg	☼	01/03/14 16:38	01/09/14 15:01	200
PCB-1248	<1600		4100	1600	ug/Kg	☼	01/03/14 16:38	01/09/14 15:01	200
PCB-1254	<870		4100	870	ug/Kg	☼	01/03/14 16:38	01/09/14 15:01	200
PCB-1260	<2000	*	4100	2000	ug/Kg	☼	01/03/14 16:38	01/09/14 15:01	200

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*0*	*D*	*50 - 116*	*01/03/14 16:38*	*01/09/14 15:01*	*200*
DCB Decachlorobiphenyl	*0*	*D*	*48 - 142*	*01/03/14 16:38*	*01/09/14 15:01*	*200*

Client Sample ID: B-180 (4-6)

Lab Sample ID: 500-69547-26

Date Collected: 01/02/14 14:50
Matrix: Solid
Date Received: 01/03/14 10:30
Percent Solids: 88.3

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<35		200	35	ug/Kg	☼	01/02/14 14:50	01/08/14 16:13	50
1,1,1-Trichloroethane	<20		100	20	ug/Kg	☼	01/02/14 14:50	01/08/14 16:13	50
1,1,2,2-Tetrachloroethane	<23		100	23	ug/Kg	☼	01/02/14 14:50	01/08/14 16:13	50
1,1,2-Trichloroethane	<28		100	28	ug/Kg	☼	01/02/14 14:50	01/08/14 16:13	50

Client: ARCADIS U.S., Inc.
Project/Site: MadisonKipp

TestAmerica Job ID: 500-69547-1

Client Sample ID: B-180 (4-6)
Date Collected: 01/02/14 14:50
Date Received: 01/03/14 10:30

Lab Sample ID: 500-69547-26
Matrix: Solid
Percent Solids: 88.3

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	<18		100	18	ug/Kg	☼	01/02/14 14:50	01/08/14 16:13	50
1,1-Dichloroethene	<31		100	31	ug/Kg	☼	01/02/14 14:50	01/08/14 16:13	50
1,1-Dichloropropene	<34		100	34	ug/Kg	☼	01/02/14 14:50	01/08/14 16:13	50
1,2,3-Trichlorobenzene	<35		200	35	ug/Kg	☼	01/02/14 14:50	01/08/14 16:13	50
1,2,3-Trichloropropane	<57		200	57	ug/Kg	☼	01/02/14 14:50	01/08/14 16:13	50
1,2,4-Trichlorobenzene	**510**		200	38	ug/Kg	☼	01/02/14 14:50	01/08/14 16:13	50
1,2,4-Trimethylbenzene	**1600**		200	21	ug/Kg	☼	01/02/14 14:50	01/08/14 16:13	50
1,2-Dibromo-3-Chloropropane	<87		200	87	ug/Kg	☼	01/02/14 14:50	01/08/14 16:13	50
1,2-Dibromoethane	<31		200	31	ug/Kg	☼	01/02/14 14:50	01/08/14 16:13	50
1,2-Dichlorobenzene	<20		200	20	ug/Kg	☼	01/02/14 14:50	01/08/14 16:13	50
1,2-Dichloroethane	<28		100	28	ug/Kg	☼	01/02/14 14:50	01/08/14 16:13	50
1,2-Dichloropropane	<20		100	20	ug/Kg	☼	01/02/14 14:50	01/08/14 16:13	50
1,3,5-Trimethylbenzene	**440**		200	21	ug/Kg	☼	01/02/14 14:50	01/08/14 16:13	50
1,3-Dichlorobenzene	**120**	**J**	200	26	ug/Kg	☼	01/02/14 14:50	01/08/14 16:13	50
1,3-Dichloropropane	<13		100	13	ug/Kg	☼	01/02/14 14:50	01/08/14 16:13	50
1,4-Dichlorobenzene	<17		200	17	ug/Kg	☼	01/02/14 14:50	01/08/14 16:13	50
2,2-Dichloropropane	<32		100	32	ug/Kg	☼	01/02/14 14:50	01/08/14 16:13	50
2-Chlorotoluene	<21		100	21	ug/Kg	☼	01/02/14 14:50	01/08/14 16:13	50
4-Chlorotoluene	<20		100	20	ug/Kg	☼	01/02/14 14:50	01/08/14 16:13	50
Benzene	<7.4		25	7.4	ug/Kg	☼	01/02/14 14:50	01/08/14 16:13	50
Bromobenzene	<42		200	42	ug/Kg	☼	01/02/14 14:50	01/08/14 16:13	50
Bromochloromethane	<38		200	38	ug/Kg	☼	01/02/14 14:50	01/08/14 16:13	50
Bromodichloromethane	<34		200	34	ug/Kg	☼	01/02/14 14:50	01/08/14 16:13	50
Bromoform	<44		200	44	ug/Kg	☼	01/02/14 14:50	01/08/14 16:13	50
Bromomethane	<68		200	68	ug/Kg	☼	01/02/14 14:50	01/08/14 16:13	50
Carbon tetrachloride	<26		100	26	ug/Kg	☼	01/02/14 14:50	01/08/14 16:13	50
Chlorobenzene	<14		100	14	ug/Kg	☼	01/02/14 14:50	01/08/14 16:13	50
Chloroethane	<43		200	43	ug/Kg	☼	01/02/14 14:50	01/08/14 16:13	50
Chloroform	<20		100	20	ug/Kg	☼	01/02/14 14:50	01/08/14 16:13	50
Chloromethane	<46		200	46	ug/Kg	☼	01/02/14 14:50	01/08/14 16:13	50
cis-1,2-Dichloroethene	<12		100	12	ug/Kg	☼	01/02/14 14:50	01/08/14 16:13	50
cis-1,3-Dichloropropene	<18		100	18	ug/Kg	☼	01/02/14 14:50	01/08/14 16:13	50
Dibromochloromethane	<35		200	35	ug/Kg	☼	01/02/14 14:50	01/08/14 16:13	50
Dibromomethane	<48		200	48	ug/Kg	☼	01/02/14 14:50	01/08/14 16:13	50
Dichlorodifluoromethane	<51	*	200	51	ug/Kg	☼	01/02/14 14:50	01/08/14 16:13	50
Ethylbenzene	**48**		25	13	ug/Kg	☼	01/02/14 14:50	01/08/14 16:13	50
Hexachlorobutadiene	<35		200	35	ug/Kg	☼	01/02/14 14:50	01/08/14 16:13	50
Isopropyl ether	<15		200	15	ug/Kg	☼	01/02/14 14:50	01/08/14 16:13	50
Isopropylbenzene	**780**		200	25	ug/Kg	☼	01/02/14 14:50	01/08/14 16:13	50
Methyl tert-butyl ether	<43		200	43	ug/Kg	☼	01/02/14 14:50	01/08/14 16:13	50
Methylene Chloride	<68		500	68	ug/Kg	☼	01/02/14 14:50	01/08/14 16:13	50
Naphthalene	**280**		200	49	ug/Kg	☼	01/02/14 14:50	01/08/14 16:13	50
n-Butylbenzene	**430**		100	13	ug/Kg	☼	01/02/14 14:50	01/08/14 16:13	50
N-Propylbenzene	**200**		200	17	ug/Kg	☼	01/02/14 14:50	01/08/14 16:13	50
p-Isopropyltoluene	**220**		200	18	ug/Kg	☼	01/02/14 14:50	01/08/14 16:13	50
sec-Butylbenzene	**170**		100	15	ug/Kg	☼	01/02/14 14:50	01/08/14 16:13	50
Styrene	<9.9		100	9.9	ug/Kg	☼	01/02/14 14:50	01/08/14 16:13	50
tert-Butylbenzene	<14		100	14	ug/Kg	☼	01/02/14 14:50	01/08/14 16:13	50
Tetrachloroethene	<17		100	17	ug/Kg	☼	01/02/14 14:50	01/08/14 16:13	50

Client Sample ID: B-180 (4-6)

Lab Sample ID: 500-69547-26

Date Collected: 01/02/14 14:50
Matrix: Solid
Date Received: 01/03/14 10:30
Percent Solids: 88.3

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	**47**		25	11	ug/Kg	☼	01/02/14 14:50	01/08/14 16:13	50
trans-1,2-Dichloroethene	<25		100	25	ug/Kg	☼	01/02/14 14:50	01/08/14 16:13	50
trans-1,3-Dichloropropene	<21		100	21	ug/Kg	☼	01/02/14 14:50	01/08/14 16:13	50
Trichloroethene	<19		50	19	ug/Kg	☼	01/02/14 14:50	01/08/14 16:13	50
Trichlorofluoromethane	<41		200	41	ug/Kg	☼	01/02/14 14:50	01/08/14 16:13	50
Vinyl chloride	<10		25	10	ug/Kg	☼	01/02/14 14:50	01/08/14 16:13	50
Xylenes, Total	**290**		50	6.8	ug/Kg	☼	01/02/14 14:50	01/08/14 16:13	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*75 - 125*	*01/02/14 14:50*	*01/08/14 16:13*	*50*
4-Bromofluorobenzene (Surr)	*100*		*75 - 120*	*01/02/14 14:50*	*01/08/14 16:13*	*50*
Dibromofluoromethane	*103*		*75 - 120*	*01/02/14 14:50*	*01/08/14 16:13*	*50*
Toluene-d8 (Surr)	*106*		*75 - 120*	*01/02/14 14:50*	*01/08/14 16:13*	*50*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<33000		95000	33000	ug/Kg	☼	01/03/14 16:38	01/09/14 15:15	5000
PCB-1221	<42000		95000	42000	ug/Kg	☼	01/03/14 16:38	01/09/14 15:15	5000
PCB-1232	<41000		95000	41000	ug/Kg	☼	01/03/14 16:38	01/09/14 15:15	5000
PCB-1242	**800000**		95000	31000	ug/Kg	☼	01/03/14 16:38	01/09/14 15:15	5000
PCB-1248	<37000		95000	37000	ug/Kg	☼	01/03/14 16:38	01/09/14 15:15	5000
PCB-1254	<20000		95000	20000	ug/Kg	☼	01/03/14 16:38	01/09/14 15:15	5000
PCB-1260	<46000	*	95000	46000	ug/Kg	☼	01/03/14 16:38	01/09/14 15:15	5000

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*0*	*D*	*50 - 116*	*01/03/14 16:38*	*01/09/14 15:15*	*5000*
DCB Decachlorobiphenyl	*0*	*D*	*48 - 142*	*01/03/14 16:38*	*01/09/14 15:15*	*5000*

Client Sample ID: B-180 (14.6-16.6)

Lab Sample ID: 500-69547-27

Date Collected: 01/02/14 14:55
Matrix: Solid
Date Received: 01/03/14 10:30
Percent Solids: 90.6

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<37		210	37	ug/Kg	☼	01/02/14 14:55	01/08/14 16:38	50
1,1,1-Trichloroethane	<22		110	22	ug/Kg	☼	01/02/14 14:55	01/08/14 16:38	50
1,1,2,2-Tetrachloroethane	<25		110	25	ug/Kg	☼	01/02/14 14:55	01/08/14 16:38	50
1,1,2-Trichloroethane	<30		110	30	ug/Kg	☼	01/02/14 14:55	01/08/14 16:38	50
1,1-Dichloroethane	<20		110	20	ug/Kg	☼	01/02/14 14:55	01/08/14 16:38	50
1,1-Dichloroethene	<33		110	33	ug/Kg	☼	01/02/14 14:55	01/08/14 16:38	50
1,1-Dichloropropene	<37		110	37	ug/Kg	☼	01/02/14 14:55	01/08/14 16:38	50
1,2,3-Trichlorobenzene	<37		210	37	ug/Kg	☼	01/02/14 14:55	01/08/14 16:38	50
1,2,3-Trichloropropane	<61		210	61	ug/Kg	☼	01/02/14 14:55	01/08/14 16:38	50
1,2,4-Trichlorobenzene	**260**		210	40	ug/Kg	☼	01/02/14 14:55	01/08/14 16:38	50
1,2,4-Trimethylbenzene	**720**		210	23	ug/Kg	☼	01/02/14 14:55	01/08/14 16:38	50
1,2-Dibromo-3-Chloropropane	<93		210	93	ug/Kg	☼	01/02/14 14:55	01/08/14 16:38	50
1,2-Dibromoethane	<34		210	34	ug/Kg	☼	01/02/14 14:55	01/08/14 16:38	50
1,2-Dichlorobenzene	<22		210	22	ug/Kg	☼	01/02/14 14:55	01/08/14 16:38	50
1,2-Dichloroethane	<31		110	31	ug/Kg	☼	01/02/14 14:55	01/08/14 16:38	50
1,2-Dichloropropane	<21		110	21	ug/Kg	☼	01/02/14 14:55	01/08/14 16:38	50

Client: ARCADIS U.S., Inc.
Project/Site: MadisonKipp

TestAmerica Job ID: 500-69547-1

Client Sample ID: B-180 (14.6-16.6)
Date Collected: 01/02/14 14:55
Date Received: 01/03/14 10:30

Lab Sample ID: 500-69547-27
Matrix: Solid
Percent Solids: 90.6

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3,5-Trimethylbenzene	**180**	**J**	210	22	ug/Kg	☼	01/02/14 14:55	01/08/14 16:38	50
1,3-Dichlorobenzene	<28		210	28	ug/Kg	☼	01/02/14 14:55	01/08/14 16:38	50
1,3-Dichloropropane	<14		110	14	ug/Kg	☼	01/02/14 14:55	01/08/14 16:38	50
1,4-Dichlorobenzene	<19		210	19	ug/Kg	☼	01/02/14 14:55	01/08/14 16:38	50
2,2-Dichloropropane	<34		110	34	ug/Kg	☼	01/02/14 14:55	01/08/14 16:38	50
2-Chlorotoluene	<22		110	22	ug/Kg	☼	01/02/14 14:55	01/08/14 16:38	50
4-Chlorotoluene	<21		110	21	ug/Kg	☼	01/02/14 14:55	01/08/14 16:38	50
Benzene	<7.9		27	7.9	ug/Kg	☼	01/02/14 14:55	01/08/14 16:38	50
Bromobenzene	<46		210	46	ug/Kg	☼	01/02/14 14:55	01/08/14 16:38	50
Bromochloromethane	<40		210	40	ug/Kg	☼	01/02/14 14:55	01/08/14 16:38	50
Bromodichloromethane	<36		210	36	ug/Kg	☼	01/02/14 14:55	01/08/14 16:38	50
Bromoform	<47		210	47	ug/Kg	☼	01/02/14 14:55	01/08/14 16:38	50
Bromomethane	<73		210	73	ug/Kg	☼	01/02/14 14:55	01/08/14 16:38	50
Carbon tetrachloride	<28		110	28	ug/Kg	☼	01/02/14 14:55	01/08/14 16:38	50
Chlorobenzene	<15		110	15	ug/Kg	☼	01/02/14 14:55	01/08/14 16:38	50
Chloroethane	<47		210	47	ug/Kg	☼	01/02/14 14:55	01/08/14 16:38	50
Chloroform	<22		110	22	ug/Kg	☼	01/02/14 14:55	01/08/14 16:38	50
Chloromethane	<49		210	49	ug/Kg	☼	01/02/14 14:55	01/08/14 16:38	50
cis-1,2-Dichloroethene	<13		110	13	ug/Kg	☼	01/02/14 14:55	01/08/14 16:38	50
cis-1,3-Dichloropropene	<19		110	19	ug/Kg	☼	01/02/14 14:55	01/08/14 16:38	50
Dibromochloromethane	<37		210	37	ug/Kg	☼	01/02/14 14:55	01/08/14 16:38	50
Dibromomethane	<51		210	51	ug/Kg	☼	01/02/14 14:55	01/08/14 16:38	50
Dichlorodifluoromethane	<55	*	210	55	ug/Kg	☼	01/02/14 14:55	01/08/14 16:38	50
Ethylbenzene	<13		27	13	ug/Kg	☼	01/02/14 14:55	01/08/14 16:38	50
Hexachlorobutadiene	<37		210	37	ug/Kg	☼	01/02/14 14:55	01/08/14 16:38	50
Isopropyl ether	<16		210	16	ug/Kg	☼	01/02/14 14:55	01/08/14 16:38	50
Isopropylbenzene	<27		210	27	ug/Kg	☼	01/02/14 14:55	01/08/14 16:38	50
Methyl tert-butyl ether	<46		210	46	ug/Kg	☼	01/02/14 14:55	01/08/14 16:38	50
Methylene Chloride	<73		540	73	ug/Kg	☼	01/02/14 14:55	01/08/14 16:38	50
Naphthalene	**140**	**J**	210	53	ug/Kg	☼	01/02/14 14:55	01/08/14 16:38	50
n-Butylbenzene	**270**		110	14	ug/Kg	☼	01/02/14 14:55	01/08/14 16:38	50
N-Propylbenzene	**85**	**J**	210	19	ug/Kg	☼	01/02/14 14:55	01/08/14 16:38	50
p-Isopropyltoluene	**110**	**J**	210	20	ug/Kg	☼	01/02/14 14:55	01/08/14 16:38	50
sec-Butylbenzene	**93**	**J**	110	16	ug/Kg	☼	01/02/14 14:55	01/08/14 16:38	50
Styrene	<11		110	11	ug/Kg	☼	01/02/14 14:55	01/08/14 16:38	50
tert-Butylbenzene	<15		110	15	ug/Kg	☼	01/02/14 14:55	01/08/14 16:38	50
Tetrachloroethene	**1100**		110	18	ug/Kg	☼	01/02/14 14:55	01/08/14 16:38	50
Toluene	<12		27	12	ug/Kg	☼	01/02/14 14:55	01/08/14 16:38	50
trans-1,2-Dichloroethene	<27		110	27	ug/Kg	☼	01/02/14 14:55	01/08/14 16:38	50
trans-1,3-Dichloropropene	<22		110	22	ug/Kg	☼	01/02/14 14:55	01/08/14 16:38	50
Trichloroethene	<20		54	20	ug/Kg	☼	01/02/14 14:55	01/08/14 16:38	50
Trichlorofluoromethane	<44		210	44	ug/Kg	☼	01/02/14 14:55	01/08/14 16:38	50
Vinyl chloride	<11		27	11	ug/Kg	☼	01/02/14 14:55	01/08/14 16:38	50
Xylenes, Total	**85**		54	7.3	ug/Kg	☼	01/02/14 14:55	01/08/14 16:38	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*75 - 125*	*01/02/14 14:55*	*01/08/14 16:38*	*50*
4-Bromofluorobenzene (Surr)	*99*		*75 - 120*	*01/02/14 14:55*	*01/08/14 16:38*	*50*
Dibromofluoromethane	*102*		*75 - 120*	*01/02/14 14:55*	*01/08/14 16:38*	*50*
Toluene-d8 (Surr)	*106*		*75 - 120*	*01/02/14 14:55*	*01/08/14 16:38*	*50*

Client: ARCADIS U.S., Inc.
Project/Site: MadisonKipp

TestAmerica Job ID: 500-69547-1

Client Sample ID: B-180 (14.6-16.6)

Lab Sample ID: 500-69547-27

Date Collected: 01/02/14 14:55
Matrix: Solid
Date Received: 01/03/14 10:30
Percent Solids: 90.6

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<32000		91000	32000	ug/Kg	☼	01/03/14 16:38	01/09/14 15:29	5000
PCB-1221	<40000		91000	40000	ug/Kg	☼	01/03/14 16:38	01/09/14 15:29	5000
PCB-1232	<40000		91000	40000	ug/Kg	☼	01/03/14 16:38	01/09/14 15:29	5000
PCB-1242	**1200000**		91000	30000	ug/Kg	☼	01/03/14 16:38	01/09/14 15:29	5000
PCB-1248	<36000		91000	36000	ug/Kg	☼	01/03/14 16:38	01/09/14 15:29	5000
PCB-1254	<20000		91000	20000	ug/Kg	☼	01/03/14 16:38	01/09/14 15:29	5000
PCB-1260	<45000	*	91000	45000	ug/Kg	☼	01/03/14 16:38	01/09/14 15:29	5000

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*0*	*D*	*50 - 116*	*01/03/14 16:38*	*01/09/14 15:29*	*5000*
DCB Decachlorobiphenyl	*0*	*D*	*48 - 142*	*01/03/14 16:38*	*01/09/14 15:29*	*5000*

Client Sample ID: B-150 (13-15)

Lab Sample ID: 500-69547-28

Date Collected: 01/02/14 15:50
Matrix: Solid
Date Received: 01/03/14 10:30
Percent Solids: 94.7

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<30		170	30	ug/Kg	☼	01/02/14 15:50	01/08/14 17:02	50
1,1,1-Trichloroethane	<17		86	17	ug/Kg	☼	01/02/14 15:50	01/08/14 17:02	50
1,1,2,2-Tetrachloroethane	<20		86	20	ug/Kg	☼	01/02/14 15:50	01/08/14 17:02	50
1,1,2-Trichloroethane	<24		86	24	ug/Kg	☼	01/02/14 15:50	01/08/14 17:02	50
1,1-Dichloroethane	<16		86	16	ug/Kg	☼	01/02/14 15:50	01/08/14 17:02	50
1,1-Dichloroethene	<26		86	26	ug/Kg	☼	01/02/14 15:50	01/08/14 17:02	50
1,1-Dichloropropene	<30		86	30	ug/Kg	☼	01/02/14 15:50	01/08/14 17:02	50
1,2,3-Trichlorobenzene	<30		170	30	ug/Kg	☼	01/02/14 15:50	01/08/14 17:02	50
1,2,3-Trichloropropane	<49		170	49	ug/Kg	☼	01/02/14 15:50	01/08/14 17:02	50
1,2,4-Trichlorobenzene	<33		170	33	ug/Kg	☼	01/02/14 15:50	01/08/14 17:02	50
1,2,4-Trimethylbenzene	**79**	**J**	170	18	ug/Kg	☼	01/02/14 15:50	01/08/14 17:02	50
1,2-Dibromo-3-Chloropropane	<75		170	75	ug/Kg	☼	01/02/14 15:50	01/08/14 17:02	50
1,2-Dibromoethane	<27		170	27	ug/Kg	☼	01/02/14 15:50	01/08/14 17:02	50
1,2-Dichlorobenzene	<18		170	18	ug/Kg	☼	01/02/14 15:50	01/08/14 17:02	50
1,2-Dichloroethane	<25		86	25	ug/Kg	☼	01/02/14 15:50	01/08/14 17:02	50
1,2-Dichloropropane	<17		86	17	ug/Kg	☼	01/02/14 15:50	01/08/14 17:02	50
1,3,5-Trimethylbenzene	<18		170	18	ug/Kg	☼	01/02/14 15:50	01/08/14 17:02	50
1,3-Dichlorobenzene	<22		170	22	ug/Kg	☼	01/02/14 15:50	01/08/14 17:02	50
1,3-Dichloropropane	<12		86	12	ug/Kg	☼	01/02/14 15:50	01/08/14 17:02	50
1,4-Dichlorobenzene	<15		170	15	ug/Kg	☼	01/02/14 15:50	01/08/14 17:02	50
2,2-Dichloropropane	<27		86	27	ug/Kg	☼	01/02/14 15:50	01/08/14 17:02	50
2-Chlorotoluene	<18		86	18	ug/Kg	☼	01/02/14 15:50	01/08/14 17:02	50
4-Chlorotoluene	<17		86	17	ug/Kg	☼	01/02/14 15:50	01/08/14 17:02	50
Benzene	<6.4		22	6.4	ug/Kg	☼	01/02/14 15:50	01/08/14 17:02	50
Bromobenzene	<37		170	37	ug/Kg	☼	01/02/14 15:50	01/08/14 17:02	50
Bromochloromethane	<33		170	33	ug/Kg	☼	01/02/14 15:50	01/08/14 17:02	50
Bromodichloromethane	<29		170	29	ug/Kg	☼	01/02/14 15:50	01/08/14 17:02	50
Bromoform	<38		170	38	ug/Kg	☼	01/02/14 15:50	01/08/14 17:02	50
Bromomethane	<59		170	59	ug/Kg	☼	01/02/14 15:50	01/08/14 17:02	50
Carbon tetrachloride	<22		86	22	ug/Kg	☼	01/02/14 15:50	01/08/14 17:02	50
Chlorobenzene	<12		86	12	ug/Kg	☼	01/02/14 15:50	01/08/14 17:02	50
Chloroethane	<37		170	37	ug/Kg	☼	01/02/14 15:50	01/08/14 17:02	50

Client: ARCADIS U.S., Inc.
Project/Site: MadisonKipp

TestAmerica Job ID: 500-69547-1

Client Sample ID: B-150 (13-15)
Date Collected: 01/02/14 15:50
Date Received: 01/03/14 10:30

Lab Sample ID: 500-69547-28
Matrix: Solid
Percent Solids: 94.7

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroform	<18		86	18	ug/Kg	☼	01/02/14 15:50	01/08/14 17:02	50
Chloromethane	<40		170	40	ug/Kg	☼	01/02/14 15:50	01/08/14 17:02	50
cis-1,2-Dichloroethene	**180**		86	11	ug/Kg	☼	01/02/14 15:50	01/08/14 17:02	50
cis-1,3-Dichloropropene	<15		86	15	ug/Kg	☼	01/02/14 15:50	01/08/14 17:02	50
Dibromochloromethane	<30		170	30	ug/Kg	☼	01/02/14 15:50	01/08/14 17:02	50
Dibromomethane	<41		170	41	ug/Kg	☼	01/02/14 15:50	01/08/14 17:02	50
Dichlorodifluoromethane	<44	*	170	44	ug/Kg	☼	01/02/14 15:50	01/08/14 17:02	50
Ethylbenzene	<11		22	11	ug/Kg	☼	01/02/14 15:50	01/08/14 17:02	50
Hexachlorobutadiene	<30		170	30	ug/Kg	☼	01/02/14 15:50	01/08/14 17:02	50
Isopropyl ether	<13		170	13	ug/Kg	☼	01/02/14 15:50	01/08/14 17:02	50
Isopropylbenzene	<22		170	22	ug/Kg	☼	01/02/14 15:50	01/08/14 17:02	50
Methyl tert-butyl ether	<37		170	37	ug/Kg	☼	01/02/14 15:50	01/08/14 17:02	50
Methylene Chloride	<59		430	59	ug/Kg	☼	01/02/14 15:50	01/08/14 17:02	50
Naphthalene	<43		170	43	ug/Kg	☼	01/02/14 15:50	01/08/14 17:02	50
n-Butylbenzene	<11		86	11	ug/Kg	☼	01/02/14 15:50	01/08/14 17:02	50
N-Propylbenzene	<15		170	15	ug/Kg	☼	01/02/14 15:50	01/08/14 17:02	50
p-Isopropyltoluene	<16		170	16	ug/Kg	☼	01/02/14 15:50	01/08/14 17:02	50
sec-Butylbenzene	<13		86	13	ug/Kg	☼	01/02/14 15:50	01/08/14 17:02	50
Styrene	<8.5		86	8.5	ug/Kg	☼	01/02/14 15:50	01/08/14 17:02	50
tert-Butylbenzene	<12		86	12	ug/Kg	☼	01/02/14 15:50	01/08/14 17:02	50
Tetrachloroethene	**1900**		86	14	ug/Kg	☼	01/02/14 15:50	01/08/14 17:02	50
Toluene	<9.9		22	9.9	ug/Kg	☼	01/02/14 15:50	01/08/14 17:02	50
trans-1,2-Dichloroethene	<22		86	22	ug/Kg	☼	01/02/14 15:50	01/08/14 17:02	50
trans-1,3-Dichloropropene	<18		86	18	ug/Kg	☼	01/02/14 15:50	01/08/14 17:02	50
Trichloroethene	**68**		43	16	ug/Kg	☼	01/02/14 15:50	01/08/14 17:02	50
Trichlorofluoromethane	<36		170	36	ug/Kg	☼	01/02/14 15:50	01/08/14 17:02	50
Vinyl chloride	<9.0		22	9.0	ug/Kg	☼	01/02/14 15:50	01/08/14 17:02	50
Xylenes, Total	<5.9		43	5.9	ug/Kg	☼	01/02/14 15:50	01/08/14 17:02	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*108*		*75 - 125*	*01/02/14 15:50*	*01/08/14 17:02*	*50*
4-Bromofluorobenzene (Surr)	*93*		*75 - 120*	*01/02/14 15:50*	*01/08/14 17:02*	*50*
Dibromofluoromethane	*104*		*75 - 120*	*01/02/14 15:50*	*01/08/14 17:02*	*50*
Toluene-d8 (Surr)	*106*		*75 - 120*	*01/02/14 15:50*	*01/08/14 17:02*	*50*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<610		1700	610	ug/Kg	☼	01/03/14 16:38	01/09/14 12:37	100
PCB-1221	<760		1700	760	ug/Kg	☼	01/03/14 16:38	01/09/14 12:37	100
PCB-1232	<750		1700	750	ug/Kg	☼	01/03/14 16:38	01/09/14 12:37	100
PCB-1242	**12000**		1700	570	ug/Kg	☼	01/03/14 16:38	01/09/14 12:37	100
PCB-1248	<680		1700	680	ug/Kg	☼	01/03/14 16:38	01/09/14 12:37	100
PCB-1254	<370		1700	370	ug/Kg	☼	01/03/14 16:38	01/09/14 12:37	100
PCB-1260	<850	*	1700	850	ug/Kg	☼	01/03/14 16:38	01/09/14 12:37	100

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*0*	*D*	*50 - 116*	*01/03/14 16:38*	*01/09/14 12:37*	*100*
DCB Decachlorobiphenyl	*0*	*D*	*48 - 142*	*01/03/14 16:38*	*01/09/14 12:37*	*100*

Client: ARCADIS U.S., Inc.
Project/Site: MadisonKipp

TestAmerica Job ID: 500-69547-1

Client Sample ID: B-150 (18-20)
Date Collected: 01/02/14 15:55
Date Received: 01/03/14 10:30

Lab Sample ID: 500-69547-29
Matrix: Solid
Percent Solids: 94.9

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<29		170	29	ug/Kg	☼	01/02/14 15:55	01/08/14 17:27	50
1,1,1-Trichloroethane	<17		83	17	ug/Kg	☼	01/02/14 15:55	01/08/14 17:27	50
1,1,2,2-Tetrachloroethane	<19		83	19	ug/Kg	☼	01/02/14 15:55	01/08/14 17:27	50
1,1,2-Trichloroethane	<23		83	23	ug/Kg	☼	01/02/14 15:55	01/08/14 17:27	50
1,1-Dichloroethane	<15		83	15	ug/Kg	☼	01/02/14 15:55	01/08/14 17:27	50
1,1-Dichloroethene	<25		83	25	ug/Kg	☼	01/02/14 15:55	01/08/14 17:27	50
1,1-Dichloropropene	<28		83	28	ug/Kg	☼	01/02/14 15:55	01/08/14 17:27	50
1,2,3-Trichlorobenzene	<29		170	29	ug/Kg	☼	01/02/14 15:55	01/08/14 17:27	50
1,2,3-Trichloropropane	<47		170	47	ug/Kg	☼	01/02/14 15:55	01/08/14 17:27	50
1,2,4-Trichlorobenzene	<31		170	31	ug/Kg	☼	01/02/14 15:55	01/08/14 17:27	50
1,2,4-Trimethylbenzene	**100**	**J**	170	17	ug/Kg	☼	01/02/14 15:55	01/08/14 17:27	50
1,2-Dibromo-3-Chloropropane	<72		170	72	ug/Kg	☼	01/02/14 15:55	01/08/14 17:27	50
1,2-Dibromoethane	<26		170	26	ug/Kg	☼	01/02/14 15:55	01/08/14 17:27	50
1,2-Dichlorobenzene	<17		170	17	ug/Kg	☼	01/02/14 15:55	01/08/14 17:27	50
1,2-Dichloroethane	<24		83	24	ug/Kg	☼	01/02/14 15:55	01/08/14 17:27	50
1,2-Dichloropropane	<16		83	16	ug/Kg	☼	01/02/14 15:55	01/08/14 17:27	50
1,3,5-Trimethylbenzene	<17		170	17	ug/Kg	☼	01/02/14 15:55	01/08/14 17:27	50
1,3-Dichlorobenzene	<21		170	21	ug/Kg	☼	01/02/14 15:55	01/08/14 17:27	50
1,3-Dichloropropane	<11		83	11	ug/Kg	☼	01/02/14 15:55	01/08/14 17:27	50
1,4-Dichlorobenzene	<14		170	14	ug/Kg	☼	01/02/14 15:55	01/08/14 17:27	50
2,2-Dichloropropane	<26		83	26	ug/Kg	☼	01/02/14 15:55	01/08/14 17:27	50
2-Chlorotoluene	<17		83	17	ug/Kg	☼	01/02/14 15:55	01/08/14 17:27	50
4-Chlorotoluene	<16		83	16	ug/Kg	☼	01/02/14 15:55	01/08/14 17:27	50
Benzene	<6.1		21	6.1	ug/Kg	☼	01/02/14 15:55	01/08/14 17:27	50
Bromobenzene	<35		170	35	ug/Kg	☼	01/02/14 15:55	01/08/14 17:27	50
Bromochloromethane	<31		170	31	ug/Kg	☼	01/02/14 15:55	01/08/14 17:27	50
Bromodichloromethane	<28		170	28	ug/Kg	☼	01/02/14 15:55	01/08/14 17:27	50
Bromoform	<36		170	36	ug/Kg	☼	01/02/14 15:55	01/08/14 17:27	50
Bromomethane	<56		170	56	ug/Kg	☼	01/02/14 15:55	01/08/14 17:27	50
Carbon tetrachloride	<21		83	21	ug/Kg	☼	01/02/14 15:55	01/08/14 17:27	50
Chlorobenzene	<12		83	12	ug/Kg	☼	01/02/14 15:55	01/08/14 17:27	50
Chloroethane	<36		170	36	ug/Kg	☼	01/02/14 15:55	01/08/14 17:27	50
Chloroform	<17		83	17	ug/Kg	☼	01/02/14 15:55	01/08/14 17:27	50
Chloromethane	<38		170	38	ug/Kg	☼	01/02/14 15:55	01/08/14 17:27	50
cis-1,2-Dichloroethene	**360**		83	10	ug/Kg	☼	01/02/14 15:55	01/08/14 17:27	50
cis-1,3-Dichloropropene	<15		83	15	ug/Kg	☼	01/02/14 15:55	01/08/14 17:27	50
Dibromochloromethane	<29		170	29	ug/Kg	☼	01/02/14 15:55	01/08/14 17:27	50
Dibromomethane	<40		170	40	ug/Kg	☼	01/02/14 15:55	01/08/14 17:27	50
Dichlorodifluoromethane	<42	*	170	42	ug/Kg	☼	01/02/14 15:55	01/08/14 17:27	50
Ethylbenzene	<10		21	10	ug/Kg	☼	01/02/14 15:55	01/08/14 17:27	50
Hexachlorobutadiene	<29		170	29	ug/Kg	☼	01/02/14 15:55	01/08/14 17:27	50
Isopropyl ether	<12		170	12	ug/Kg	☼	01/02/14 15:55	01/08/14 17:27	50
Isopropylbenzene	<21		170	21	ug/Kg	☼	01/02/14 15:55	01/08/14 17:27	50
Methyl tert-butyl ether	<36		170	36	ug/Kg	☼	01/02/14 15:55	01/08/14 17:27	50
Methylene Chloride	<56		410	56	ug/Kg	☼	01/02/14 15:55	01/08/14 17:27	50
Naphthalene	**95**	**J**	170	41	ug/Kg	☼	01/02/14 15:55	01/08/14 17:27	50
n-Butylbenzene	<11		83	11	ug/Kg	☼	01/02/14 15:55	01/08/14 17:27	50
N-Propylbenzene	<14		170	14	ug/Kg	☼	01/02/14 15:55	01/08/14 17:27	50
p-Isopropyltoluene	<15		170	15	ug/Kg	☼	01/02/14 15:55	01/08/14 17:27	50

Client Sample ID: B-150 (18-20)

Lab Sample ID: 500-69547-29

Date Collected: 01/02/14 15:55
Matrix: Solid
Date Received: 01/03/14 10:30
Percent Solids: 94.9

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	<13		83	13	ug/Kg	☼	01/02/14 15:55	01/08/14 17:27	50
Styrene	<8.2		83	8.2	ug/Kg	☼	01/02/14 15:55	01/08/14 17:27	50
tert-Butylbenzene	<11		83	11	ug/Kg	☼	01/02/14 15:55	01/08/14 17:27	50
Tetrachloroethene	**3100**		83	14	ug/Kg	☼	01/02/14 15:55	01/08/14 17:27	50
Toluene	<9.5		21	9.5	ug/Kg	☼	01/02/14 15:55	01/08/14 17:27	50
trans-1,2-Dichloroethene	<21		83	21	ug/Kg	☼	01/02/14 15:55	01/08/14 17:27	50
trans-1,3-Dichloropropene	<17		83	17	ug/Kg	☼	01/02/14 15:55	01/08/14 17:27	50
Trichloroethene	**140**		41	15	ug/Kg	☼	01/02/14 15:55	01/08/14 17:27	50
Trichlorofluoromethane	<34		170	34	ug/Kg	☼	01/02/14 15:55	01/08/14 17:27	50
Vinyl chloride	<8.6		21	8.6	ug/Kg	☼	01/02/14 15:55	01/08/14 17:27	50
Xylenes, Total	<5.7		41	5.7	ug/Kg	☼	01/02/14 15:55	01/08/14 17:27	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*75 - 125*	*01/02/14 15:55*	*01/08/14 17:27*	*50*
4-Bromofluorobenzene (Surr)	*92*		*75 - 120*	*01/02/14 15:55*	*01/08/14 17:27*	*50*
Dibromofluoromethane	*104*		*75 - 120*	*01/02/14 15:55*	*01/08/14 17:27*	*50*
Toluene-d8 (Surr)	*106*		*75 - 120*	*01/02/14 15:55*	*01/08/14 17:27*	*50*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<6.1		17	6.1	ug/Kg	☼	01/03/14 16:38	01/08/14 18:26	1
PCB-1221	<7.6		17	7.6	ug/Kg	☼	01/03/14 16:38	01/08/14 18:26	1
PCB-1232	<7.5		17	7.5	ug/Kg	☼	01/03/14 16:38	01/08/14 18:26	1
PCB-1242	**320**		17	5.7	ug/Kg	☼	01/03/14 16:38	01/08/14 18:26	1
PCB-1248	<6.8		17	6.8	ug/Kg	☼	01/03/14 16:38	01/08/14 18:26	1
PCB-1254	<3.7		17	3.7	ug/Kg	☼	01/03/14 16:38	01/08/14 18:26	1
PCB-1260	<8.5	*	17	8.5	ug/Kg	☼	01/03/14 16:38	01/08/14 18:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*77*		*50 - 116*	*01/03/14 16:38*	*01/08/14 18:26*	*1*
DCB Decachlorobiphenyl	*98*		*48 - 142*	*01/03/14 16:38*	*01/08/14 18:26*	*1*

Client Sample ID: Trip Blank

Lab Sample ID: 500-69547-30

Date Collected: 12/30/13 00:00
Matrix: Solid
Date Received: 01/03/14 10:30

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<17		100	17	ug/Kg		12/30/13 00:00	01/08/14 17:51	50
1,1,1-Trichloroethane	<10		50	10	ug/Kg		12/30/13 00:00	01/08/14 17:51	50
1,1,2,2-Tetrachloroethane	<12		50	12	ug/Kg		12/30/13 00:00	01/08/14 17:51	50
1,1,2-Trichloroethane	<14		50	14	ug/Kg		12/30/13 00:00	01/08/14 17:51	50
1,1-Dichloroethane	<9.3		50	9.3	ug/Kg		12/30/13 00:00	01/08/14 17:51	50
1,1-Dichloroethene	<15		50	15	ug/Kg		12/30/13 00:00	01/08/14 17:51	50
1,1-Dichloropropene	<17		50	17	ug/Kg		12/30/13 00:00	01/08/14 17:51	50
1,2,3-Trichlorobenzene	<18		100	18	ug/Kg		12/30/13 00:00	01/08/14 17:51	50
1,2,3-Trichloropropane	<29		100	29	ug/Kg		12/30/13 00:00	01/08/14 17:51	50
1,2,4-Trichlorobenzene	<19		100	19	ug/Kg		12/30/13 00:00	01/08/14 17:51	50
1,2,4-Trimethylbenzene	<11		100	11	ug/Kg		12/30/13 00:00	01/08/14 17:51	50
1,2-Dibromo-3-Chloropropane	<44		100	44	ug/Kg		12/30/13 00:00	01/08/14 17:51	50

Client: ARCADIS U.S., Inc.
Project/Site: MadisonKipp

TestAmerica Job ID: 500-69547-1

Client Sample ID: Trip Blank
Date Collected: 12/30/13 00:00
Date Received: 01/03/14 10:30

Lab Sample ID: 500-69547-30
Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane	<16		100	16	ug/Kg		12/30/13 00:00	01/08/14 17:51	50
1,2-Dichlorobenzene	<10		100	10	ug/Kg		12/30/13 00:00	01/08/14 17:51	50
1,2-Dichloroethane	<14		50	14	ug/Kg		12/30/13 00:00	01/08/14 17:51	50
1,2-Dichloropropane	<9.8		50	9.8	ug/Kg		12/30/13 00:00	01/08/14 17:51	50
1,3,5-Trimethylbenzene	<10		100	10	ug/Kg		12/30/13 00:00	01/08/14 17:51	50
1,3-Dichlorobenzene	<13		100	13	ug/Kg		12/30/13 00:00	01/08/14 17:51	50
1,3-Dichloropropane	<6.7		50	6.7	ug/Kg		12/30/13 00:00	01/08/14 17:51	50
1,4-Dichlorobenzene	<8.7		100	8.7	ug/Kg		12/30/13 00:00	01/08/14 17:51	50
2,2-Dichloropropane	<16		50	16	ug/Kg		12/30/13 00:00	01/08/14 17:51	50
2-Chlorotoluene	<10		50	10	ug/Kg		12/30/13 00:00	01/08/14 17:51	50
4-Chlorotoluene	<9.9		50	9.9	ug/Kg		12/30/13 00:00	01/08/14 17:51	50
Benzene	<3.7		13	3.7	ug/Kg		12/30/13 00:00	01/08/14 17:51	50
Bromobenzene	<21		100	21	ug/Kg		12/30/13 00:00	01/08/14 17:51	50
Bromochloromethane	<19		100	19	ug/Kg		12/30/13 00:00	01/08/14 17:51	50
Bromodichloromethane	<17		100	17	ug/Kg		12/30/13 00:00	01/08/14 17:51	50
Bromoform	<22		100	22	ug/Kg		12/30/13 00:00	01/08/14 17:51	50
Bromomethane	<34		100	34	ug/Kg		12/30/13 00:00	01/08/14 17:51	50
Carbon tetrachloride	<13		50	13	ug/Kg		12/30/13 00:00	01/08/14 17:51	50
Chlorobenzene	<7.2		50	7.2	ug/Kg		12/30/13 00:00	01/08/14 17:51	50
Chloroethane	<22		100	22	ug/Kg		12/30/13 00:00	01/08/14 17:51	50
Chloroform	<10		50	10	ug/Kg		12/30/13 00:00	01/08/14 17:51	50
Chloromethane	<23		100	23	ug/Kg		12/30/13 00:00	01/08/14 17:51	50
cis-1,2-Dichloroethene	<6.2		50	6.2	ug/Kg		12/30/13 00:00	01/08/14 17:51	50
cis-1,3-Dichloropropene	<8.9		50	8.9	ug/Kg		12/30/13 00:00	01/08/14 17:51	50
Dibromochloromethane	<17		100	17	ug/Kg		12/30/13 00:00	01/08/14 17:51	50
Dibromomethane	<24		100	24	ug/Kg		12/30/13 00:00	01/08/14 17:51	50
Dichlorodifluoromethane	<26	*	100	26	ug/Kg		12/30/13 00:00	01/08/14 17:51	50
Ethylbenzene	<6.3		13	6.3	ug/Kg		12/30/13 00:00	01/08/14 17:51	50
Hexachlorobutadiene	<17		100	17	ug/Kg		12/30/13 00:00	01/08/14 17:51	50
Isopropyl ether	<7.4		100	7.4	ug/Kg		12/30/13 00:00	01/08/14 17:51	50
Isopropylbenzene	<13		100	13	ug/Kg		12/30/13 00:00	01/08/14 17:51	50
Methyl tert-butyl ether	<22		100	22	ug/Kg		12/30/13 00:00	01/08/14 17:51	50
Methylene Chloride	<34		250	34	ug/Kg		12/30/13 00:00	01/08/14 17:51	50
Naphthalene	<25		100	25	ug/Kg		12/30/13 00:00	01/08/14 17:51	50
n-Butylbenzene	<6.5		50	6.5	ug/Kg		12/30/13 00:00	01/08/14 17:51	50
N-Propylbenzene	<8.8		100	8.8	ug/Kg		12/30/13 00:00	01/08/14 17:51	50
p-Isopropyltoluene	<9.3		100	9.3	ug/Kg		12/30/13 00:00	01/08/14 17:51	50
sec-Butylbenzene	<7.7		50	7.7	ug/Kg		12/30/13 00:00	01/08/14 17:51	50
Styrene	<4.9		50	4.9	ug/Kg		12/30/13 00:00	01/08/14 17:51	50
tert-Butylbenzene	<6.8		50	6.8	ug/Kg		12/30/13 00:00	01/08/14 17:51	50
Tetrachloroethene	<8.4		50	8.4	ug/Kg		12/30/13 00:00	01/08/14 17:51	50
Toluene	<5.8		13	5.8	ug/Kg		12/30/13 00:00	01/08/14 17:51	50
trans-1,2-Dichloroethene	<13		50	13	ug/Kg		12/30/13 00:00	01/08/14 17:51	50
trans-1,3-Dichloropropene	<10		50	10	ug/Kg		12/30/13 00:00	01/08/14 17:51	50
Trichloroethene	<9.3		25	9.3	ug/Kg		12/30/13 00:00	01/08/14 17:51	50
Trichlorofluoromethane	<21		100	21	ug/Kg		12/30/13 00:00	01/08/14 17:51	50
Vinyl chloride	<5.2		13	5.2	ug/Kg		12/30/13 00:00	01/08/14 17:51	50
Xylenes, Total	<3.4		25	3.4	ug/Kg		12/30/13 00:00	01/08/14 17:51	50

Client Sample ID: Trip Blank
Date Collected: 12/30/13 00:00
Date Received: 01/03/14 10:30

Lab Sample ID: 500-69547-30
Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*75 - 125*	*12/30/13 00:00*	*01/08/14 17:51*	*50*
4-Bromofluorobenzene (Surr)	*96*		*75 - 120*	*12/30/13 00:00*	*01/08/14 17:51*	*50*
Dibromofluoromethane	*104*		*75 - 120*	*12/30/13 00:00*	*01/08/14 17:51*	*50*
Toluene-d8 (Surr)	*108*		*75 - 120*	*12/30/13 00:00*	*01/08/14 17:51*	*50*

Client Sample ID: Trip Blank
Date Collected: 01/02/14 00:00
Date Received: 01/03/14 10:30

Lab Sample ID: 500-69547-31
Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<17		100	17	ug/Kg		01/02/14 00:00	01/09/14 11:01	50
1,1,1-Trichloroethane	<10		50	10	ug/Kg		01/02/14 00:00	01/09/14 11:01	50
1,1,2,2-Tetrachloroethane	<12		50	12	ug/Kg		01/02/14 00:00	01/09/14 11:01	50
1,1,2-Trichloroethane	<14		50	14	ug/Kg		01/02/14 00:00	01/09/14 11:01	50
1,1-Dichloroethane	<9.3		50	9.3	ug/Kg		01/02/14 00:00	01/09/14 11:01	50
1,1-Dichloroethene	<15		50	15	ug/Kg		01/02/14 00:00	01/09/14 11:01	50
1,1-Dichloropropene	<17		50	17	ug/Kg		01/02/14 00:00	01/09/14 11:01	50
1,2,3-Trichlorobenzene	<18		100	18	ug/Kg		01/02/14 00:00	01/09/14 11:01	50
1,2,3-Trichloropropane	<29		100	29	ug/Kg		01/02/14 00:00	01/09/14 11:01	50
1,2,4-Trichlorobenzene	<19		100	19	ug/Kg		01/02/14 00:00	01/09/14 11:01	50
1,2,4-Trimethylbenzene	<11		100	11	ug/Kg		01/02/14 00:00	01/09/14 11:01	50
1,2-Dibromo-3-Chloropropane	<44		100	44	ug/Kg		01/02/14 00:00	01/09/14 11:01	50
1,2-Dibromoethane	<16		100	16	ug/Kg		01/02/14 00:00	01/09/14 11:01	50
1,2-Dichlorobenzene	<10		100	10	ug/Kg		01/02/14 00:00	01/09/14 11:01	50
1,2-Dichloroethane	<14		50	14	ug/Kg		01/02/14 00:00	01/09/14 11:01	50
1,2-Dichloropropane	<9.8		50	9.8	ug/Kg		01/02/14 00:00	01/09/14 11:01	50
1,3,5-Trimethylbenzene	<10		100	10	ug/Kg		01/02/14 00:00	01/09/14 11:01	50
1,3-Dichlorobenzene	<13		100	13	ug/Kg		01/02/14 00:00	01/09/14 11:01	50
1,3-Dichloropropane	<6.7		50	6.7	ug/Kg		01/02/14 00:00	01/09/14 11:01	50
1,4-Dichlorobenzene	<8.7		100	8.7	ug/Kg		01/02/14 00:00	01/09/14 11:01	50
2,2-Dichloropropane	<16		50	16	ug/Kg		01/02/14 00:00	01/09/14 11:01	50
2-Chlorotoluene	<10		50	10	ug/Kg		01/02/14 00:00	01/09/14 11:01	50
4-Chlorotoluene	<9.9		50	9.9	ug/Kg		01/02/14 00:00	01/09/14 11:01	50
Benzene	<3.7		13	3.7	ug/Kg		01/02/14 00:00	01/09/14 11:01	50
Bromobenzene	<21		100	21	ug/Kg		01/02/14 00:00	01/09/14 11:01	50
Bromochloromethane	<19		100	19	ug/Kg		01/02/14 00:00	01/09/14 11:01	50
Bromodichloromethane	<17		100	17	ug/Kg		01/02/14 00:00	01/09/14 11:01	50
Bromoform	<22		100	22	ug/Kg		01/02/14 00:00	01/09/14 11:01	50
Bromomethane	<34		100	34	ug/Kg		01/02/14 00:00	01/09/14 11:01	50
Carbon tetrachloride	<13		50	13	ug/Kg		01/02/14 00:00	01/09/14 11:01	50
Chlorobenzene	<7.2		50	7.2	ug/Kg		01/02/14 00:00	01/09/14 11:01	50
Chloroethane	<22		100	22	ug/Kg		01/02/14 00:00	01/09/14 11:01	50
Chloroform	<10		50	10	ug/Kg		01/02/14 00:00	01/09/14 11:01	50
Chloromethane	<23		100	23	ug/Kg		01/02/14 00:00	01/09/14 11:01	50
cis-1,2-Dichloroethene	<6.2		50	6.2	ug/Kg		01/02/14 00:00	01/09/14 11:01	50
cis-1,3-Dichloropropene	<8.9		50	8.9	ug/Kg		01/02/14 00:00	01/09/14 11:01	50
Dibromochloromethane	<17		100	17	ug/Kg		01/02/14 00:00	01/09/14 11:01	50
Dibromomethane	<24		100	24	ug/Kg		01/02/14 00:00	01/09/14 11:01	50
Dichlorodifluoromethane	<26	*	100	26	ug/Kg		01/02/14 00:00	01/09/14 11:01	50

Client: ARCADIS U.S., Inc.
Project/Site: MadisonKipp

TestAmerica Job ID: 500-69547-1

Client Sample ID: Trip Blank
Date Collected: 01/02/14 00:00
Date Received: 01/03/14 10:30

Lab Sample ID: 500-69547-31
Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	<6.3		13	6.3	ug/Kg		01/02/14 00:00	01/09/14 11:01	50
Hexachlorobutadiene	<17		100	17	ug/Kg		01/02/14 00:00	01/09/14 11:01	50
Isopropyl ether	<7.4		100	7.4	ug/Kg		01/02/14 00:00	01/09/14 11:01	50
Isopropylbenzene	<13		100	13	ug/Kg		01/02/14 00:00	01/09/14 11:01	50
Methyl tert-butyl ether	<22		100	22	ug/Kg		01/02/14 00:00	01/09/14 11:01	50
Methylene Chloride	<34		250	34	ug/Kg		01/02/14 00:00	01/09/14 11:01	50
Naphthalene	<25		100	25	ug/Kg		01/02/14 00:00	01/09/14 11:01	50
n-Butylbenzene	<6.5		50	6.5	ug/Kg		01/02/14 00:00	01/09/14 11:01	50
N-Propylbenzene	<8.8		100	8.8	ug/Kg		01/02/14 00:00	01/09/14 11:01	50
p-Isopropyltoluene	<9.3		100	9.3	ug/Kg		01/02/14 00:00	01/09/14 11:01	50
sec-Butylbenzene	<7.7		50	7.7	ug/Kg		01/02/14 00:00	01/09/14 11:01	50
Styrene	<4.9		50	4.9	ug/Kg		01/02/14 00:00	01/09/14 11:01	50
tert-Butylbenzene	<6.8		50	6.8	ug/Kg		01/02/14 00:00	01/09/14 11:01	50
Tetrachloroethene	<8.4		50	8.4	ug/Kg		01/02/14 00:00	01/09/14 11:01	50
Toluene	<5.8		13	5.8	ug/Kg		01/02/14 00:00	01/09/14 11:01	50
trans-1,2-Dichloroethene	<13		50	13	ug/Kg		01/02/14 00:00	01/09/14 11:01	50
trans-1,3-Dichloropropene	<10		50	10	ug/Kg		01/02/14 00:00	01/09/14 11:01	50
Trichloroethene	<9.3		25	9.3	ug/Kg		01/02/14 00:00	01/09/14 11:01	50
Trichlorofluoromethane	<21		100	21	ug/Kg		01/02/14 00:00	01/09/14 11:01	50
Vinyl chloride	<5.2		13	5.2	ug/Kg		01/02/14 00:00	01/09/14 11:01	50
Xylenes, Total	<3.4		25	3.4	ug/Kg		01/02/14 00:00	01/09/14 11:01	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*75 - 125*	*01/02/14 00:00*	*01/09/14 11:01*	*50*
4-Bromofluorobenzene (Surr)	*93*		*75 - 120*	*01/02/14 00:00*	*01/09/14 11:01*	*50*
Dibromofluoromethane	*103*		*75 - 120*	*01/02/14 00:00*	*01/09/14 11:01*	*50*
Toluene-d8 (Surr)	*106*		*75 - 120*	*01/02/14 00:00*	*01/09/14 11:01*	*50*

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD exceeds the control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
F1	MS and/or MSD Recovery exceeds the control limits

GC Semi VOA

Qualifier	Qualifier Description
D	Surrogate or matrix spike recoveries were not obtained because the extract was diluted for analysis; also compounds analyzed at a dilution may be flagged with a D.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
*	LCS or LCSD exceeds the control limits
E	Result exceeded calibration range.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

GC/MS VOA

Prep Batch: 218769

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-69547-1	B-178 (9-11)	Total/NA	Solid	5035	
500-69547-2	B-188 (2-4)	Total/NA	Solid	5035	
500-69547-3	B-188 (9-11)	Total/NA	Solid	5035	
500-69547-4	B-188 (13-15)	Total/NA	Solid	5035	
500-69547-5	B-149 (8-10)	Total/NA	Solid	5035	
500-69547-6	B-149 (10-11.4)	Total/NA	Solid	5035	
500-69547-7	B-181 (1.5-3.5)	Total/NA	Solid	5035	
500-69547-8	B-181 (4-6)	Total/NA	Solid	5035	
500-69547-9	B-181 (8.4-10.4)	Total/NA	Solid	5035	
500-69547-10	B-182 (1.2-3.2)	Total/NA	Solid	5035	
500-69547-11	B-158 (8-9)	Total/NA	Solid	5035	
500-69547-12	B-158 (10-12)	Total/NA	Solid	5035	
500-69547-13	B-175 (2-4)	Total/NA	Solid	5035	
500-69547-14	B-175 (14-16)	Total/NA	Solid	5035	
500-69547-15	B-175 (18.5-20.5)	Total/NA	Solid	5035	
500-69547-16	B-176 (2-4)	Total/NA	Solid	5035	
500-69547-16 MS	B-176 (2-4)	Total/NA	Solid	5035	
500-69547-16 MSD	B-176 (2-4)	Total/NA	Solid	5035	
500-69547-17	B-176 (12-14)	Total/NA	Solid	5035	
500-69547-17 MS	B-176 (12-14)	Total/NA	Solid	5035	
500-69547-17 MSD	B-176 (12-14)	Total/NA	Solid	5035	
500-69547-18	B-176 (18.5-20.5)	Total/NA	Solid	5035	
LB3 500-218769/19-A	Method Blank	Total/NA	Solid	5035	
LCS 500-218769/20-A	Lab Control Sample	Total/NA	Solid	5035	

Prep Batch: 218770

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-69547-19	B-178 (2-4)	Total/NA	Solid	5035	
500-69547-20	B-178 (6-7.5)	Total/NA	Solid	5035	
500-69547-21	B-182 (5.1-7.1)	Total/NA	Solid	5035	
500-69547-22	B-182 (13.5-15.5)	Total/NA	Solid	5035	
500-69547-23	B-148 (10-12)	Total/NA	Solid	5035	
500-69547-24	B-148 (17.5-19.5)	Total/NA	Solid	5035	
500-69547-25	B-180 (0-2)	Total/NA	Solid	5035	
500-69547-26	B-180 (4-6)	Total/NA	Solid	5035	
500-69547-27	B-180 (14.6-16.6)	Total/NA	Solid	5035	
500-69547-28	B-150 (13-15)	Total/NA	Solid	5035	
500-69547-29	B-150 (18-20)	Total/NA	Solid	5035	
500-69547-30	Trip Blank	Total/NA	Solid	5035	
500-69547-31	Trip Blank	Total/NA	Solid	5035	
LB3 500-218770/14-A	Method Blank	Total/NA	Solid	5035	
LCS 500-218770/15-A	Lab Control Sample	Total/NA	Solid	5035	

Analysis Batch: 218825

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-69547-1	B-178 (9-11)	Total/NA	Solid	8260B	218769
500-69547-2	B-188 (2-4)	Total/NA	Solid	8260B	218769
500-69547-3	B-188 (9-11)	Total/NA	Solid	8260B	218769
500-69547-4	B-188 (13-15)	Total/NA	Solid	8260B	218769
500-69547-5	B-149 (8-10)	Total/NA	Solid	8260B	218769
500-69547-6	B-149 (10-11.4)	Total/NA	Solid	8260B	218769

GC/MS VOA (Continued)

Analysis Batch: 218825 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-69547-7	B-181 (1.5-3.5)	Total/NA	Solid	8260B	218769
500-69547-8	B-181 (4-6)	Total/NA	Solid	8260B	218769
500-69547-9	B-181 (8.4-10.4)	Total/NA	Solid	8260B	218769
500-69547-10	B-182 (1.2-3.2)	Total/NA	Solid	8260B	218769
500-69547-11	B-158 (8-9)	Total/NA	Solid	8260B	218769
500-69547-12	B-158 (10-12)	Total/NA	Solid	8260B	218769
500-69547-13	B-175 (2-4)	Total/NA	Solid	8260B	218769
500-69547-14	B-175 (14-16)	Total/NA	Solid	8260B	218769
500-69547-15	B-175 (18.5-20.5)	Total/NA	Solid	8260B	218769
500-69547-16	B-176 (2-4)	Total/NA	Solid	8260B	218769
500-69547-16 MS	B-176 (2-4)	Total/NA	Solid	8260B	218769
500-69547-16 MSD	B-176 (2-4)	Total/NA	Solid	8260B	218769
LB3 500-218769/19-A	Method Blank	Total/NA	Solid	8260B	218769
LCS 500-218769/20-A	Lab Control Sample	Total/NA	Solid	8260B	218769
LCS 500-218825/4	Lab Control Sample	Total/NA	Solid	8260B	
MB 500-218825/6	Method Blank	Total/NA	Solid	8260B	

Analysis Batch: 218983

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-69547-17	B-176 (12-14)	Total/NA	Solid	8260B	218769
500-69547-17 MS	B-176 (12-14)	Total/NA	Solid	8260B	218769
500-69547-17 MSD	B-176 (12-14)	Total/NA	Solid	8260B	218769
500-69547-18	B-176 (18.5-20.5)	Total/NA	Solid	8260B	218769
500-69547-19	B-178 (2-4)	Total/NA	Solid	8260B	218770
500-69547-20	B-178 (6-7.5)	Total/NA	Solid	8260B	218770
500-69547-21	B-182 (5.1-7.1)	Total/NA	Solid	8260B	218770
500-69547-22	B-182 (13.5-15.5)	Total/NA	Solid	8260B	218770
500-69547-23	B-148 (10-12)	Total/NA	Solid	8260B	218770
500-69547-24	B-148 (17.5-19.5)	Total/NA	Solid	8260B	218770
500-69547-25	B-180 (0-2)	Total/NA	Solid	8260B	218770
500-69547-26	B-180 (4-6)	Total/NA	Solid	8260B	218770
500-69547-27	B-180 (14.6-16.6)	Total/NA	Solid	8260B	218770
500-69547-28	B-150 (13-15)	Total/NA	Solid	8260B	218770
500-69547-29	B-150 (18-20)	Total/NA	Solid	8260B	218770
500-69547-30	Trip Blank	Total/NA	Solid	8260B	218770
LB3 500-218770/14-A	Method Blank	Total/NA	Solid	8260B	218770
LCS 500-218770/15-A	Lab Control Sample	Total/NA	Solid	8260B	218770
LCS 500-218983/4	Lab Control Sample	Total/NA	Solid	8260B	
MB 500-218983/6	Method Blank	Total/NA	Solid	8260B	

Analysis Batch: 219128

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-69547-31	Trip Blank	Total/NA	Solid	8260B	218770
LCS 500-219128/4	Lab Control Sample	Total/NA	Solid	8260B	
MB 500-219128/6	Method Blank	Total/NA	Solid	8260B	

GC Semi VOA

Prep Batch: 218759

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-69547-21	B-182 (5.1-7.1)	Total/NA	Solid	3541	
500-69547-21 MS	B-182 (5.1-7.1)	Total/NA	Solid	3541	
500-69547-21 MSD	B-182 (5.1-7.1)	Total/NA	Solid	3541	
500-69547-22	B-182 (13.5-15.5)	Total/NA	Solid	3541	
500-69547-23	B-148 (10-12)	Total/NA	Solid	3541	
500-69547-24	B-148 (17.5-19.5)	Total/NA	Solid	3541	
500-69547-25	B-180 (0-2)	Total/NA	Solid	3541	
500-69547-26	B-180 (4-6)	Total/NA	Solid	3541	
500-69547-27	B-180 (14.6-16.6)	Total/NA	Solid	3541	
500-69547-28	B-150 (13-15)	Total/NA	Solid	3541	
500-69547-29	B-150 (18-20)	Total/NA	Solid	3541	
LCS 500-218759/2-A	Lab Control Sample	Total/NA	Solid	3541	
MB 500-218759/1-A	Method Blank	Total/NA	Solid	3541	

Prep Batch: 218836

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-69547-1	B-178 (9-11)	Total/NA	Solid	3541	
500-69547-1 MS	B-178 (9-11)	Total/NA	Solid	3541	
500-69547-1 MSD	B-178 (9-11)	Total/NA	Solid	3541	
500-69547-2	B-188 (2-4)	Total/NA	Solid	3541	
500-69547-3	B-188 (9-11)	Total/NA	Solid	3541	
500-69547-4	B-188 (13-15)	Total/NA	Solid	3541	
500-69547-5	B-149 (8-10)	Total/NA	Solid	3541	
500-69547-6	B-149 (10-11.4)	Total/NA	Solid	3541	
500-69547-7	B-181 (1.5-3.5)	Total/NA	Solid	3541	
500-69547-8	B-181 (4-6)	Total/NA	Solid	3541	
500-69547-9	B-181 (8.4-10.4)	Total/NA	Solid	3541	
500-69547-10	B-182 (1.2-3.2)	Total/NA	Solid	3541	
500-69547-11	B-158 (8-9)	Total/NA	Solid	3541	
500-69547-12	B-158 (10-12)	Total/NA	Solid	3541	
500-69547-13	B-175 (2-4)	Total/NA	Solid	3541	
500-69547-14	B-175 (14-16)	Total/NA	Solid	3541	
500-69547-15	B-175 (18.5-20.5)	Total/NA	Solid	3541	
500-69547-16	B-176 (2-4)	Total/NA	Solid	3541	
500-69547-17	B-176 (12-14)	Total/NA	Solid	3541	
500-69547-18	B-176 (18.5-20.5)	Total/NA	Solid	3541	
500-69547-19	B-178 (2-4)	Total/NA	Solid	3541	
500-69547-20	B-178 (6-7.5)	Total/NA	Solid	3541	
LCS 500-218836/2-A	Lab Control Sample	Total/NA	Solid	3541	
MB 500-218836/1-A	Method Blank	Total/NA	Solid	3541	

Analysis Batch: 219007

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-69547-1	B-178 (9-11)	Total/NA	Solid	8082	218836
500-69547-1 MS	B-178 (9-11)	Total/NA	Solid	8082	218836
500-69547-1 MSD	B-178 (9-11)	Total/NA	Solid	8082	218836
500-69547-2	B-188 (2-4)	Total/NA	Solid	8082	218836
500-69547-3	B-188 (9-11)	Total/NA	Solid	8082	218836
500-69547-4	B-188 (13-15)	Total/NA	Solid	8082	218836
500-69547-5	B-149 (8-10)	Total/NA	Solid	8082	218836
500-69547-6	B-149 (10-11.4)	Total/NA	Solid	8082	218836

GC Semi VOA (Continued)

Analysis Batch: 219007 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-69547-7	B-181 (1.5-3.5)	Total/NA	Solid	8082	218836
500-69547-8	B-181 (4-6)	Total/NA	Solid	8082	218836
500-69547-9	B-181 (8.4-10.4)	Total/NA	Solid	8082	218836
500-69547-10	B-182 (1.2-3.2)	Total/NA	Solid	8082	218836
500-69547-11	B-158 (8-9)	Total/NA	Solid	8082	218836
500-69547-12	B-158 (10-12)	Total/NA	Solid	8082	218836
500-69547-13	B-175 (2-4)	Total/NA	Solid	8082	218836
500-69547-14	B-175 (14-16)	Total/NA	Solid	8082	218836
500-69547-15	B-175 (18.5-20.5)	Total/NA	Solid	8082	218836
500-69547-16	B-176 (2-4)	Total/NA	Solid	8082	218836
500-69547-17	B-176 (12-14)	Total/NA	Solid	8082	218836
500-69547-18	B-176 (18.5-20.5)	Total/NA	Solid	8082	218836
500-69547-19	B-178 (2-4)	Total/NA	Solid	8082	218836
500-69547-20	B-178 (6-7.5)	Total/NA	Solid	8082	218836
500-69547-21	B-182 (5.1-7.1)	Total/NA	Solid	8082	218759
500-69547-21 MS	B-182 (5.1-7.1)	Total/NA	Solid	8082	218759
500-69547-21 MSD	B-182 (5.1-7.1)	Total/NA	Solid	8082	218759
500-69547-22	B-182 (13.5-15.5)	Total/NA	Solid	8082	218759
500-69547-23	B-148 (10-12)	Total/NA	Solid	8082	218759
500-69547-24	B-148 (17.5-19.5)	Total/NA	Solid	8082	218759
500-69547-25	B-180 (0-2)	Total/NA	Solid	8082	218759
500-69547-26	B-180 (4-6)	Total/NA	Solid	8082	218759
500-69547-27	B-180 (14.6-16.6)	Total/NA	Solid	8082	218759
500-69547-28	B-150 (13-15)	Total/NA	Solid	8082	218759
500-69547-29	B-150 (18-20)	Total/NA	Solid	8082	218759
LCS 500-218759/2-A	Lab Control Sample	Total/NA	Solid	8082	218759
LCS 500-218836/2-A	Lab Control Sample	Total/NA	Solid	8082	218836
MB 500-218759/1-A	Method Blank	Total/NA	Solid	8082	218759
MB 500-218836/1-A	Method Blank	Total/NA	Solid	8082	218836

General Chemistry

Analysis Batch: 218733

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-69547-1	B-178 (9-11)	Total/NA	Solid	Moisture	
500-69547-1 DU	B-178 (9-11)	Total/NA	Solid	Moisture	
500-69547-2	B-188 (2-4)	Total/NA	Solid	Moisture	
500-69547-3	B-188 (9-11)	Total/NA	Solid	Moisture	
500-69547-4	B-188 (13-15)	Total/NA	Solid	Moisture	
500-69547-5	B-149 (8-10)	Total/NA	Solid	Moisture	
500-69547-6	B-149 (10-11.4)	Total/NA	Solid	Moisture	
500-69547-7	B-181 (1.5-3.5)	Total/NA	Solid	Moisture	
500-69547-8	B-181 (4-6)	Total/NA	Solid	Moisture	
500-69547-9	B-181 (8.4-10.4)	Total/NA	Solid	Moisture	
500-69547-10	B-182 (1.2-3.2)	Total/NA	Solid	Moisture	
500-69547-11	B-158 (8-9)	Total/NA	Solid	Moisture	
500-69547-12	B-158 (10-12)	Total/NA	Solid	Moisture	
500-69547-13	B-175 (2-4)	Total/NA	Solid	Moisture	
500-69547-14	B-175 (14-16)	Total/NA	Solid	Moisture	
500-69547-15	B-175 (18.5-20.5)	Total/NA	Solid	Moisture	

General Chemistry (Continued)

Analysis Batch: 218733 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-69547-16	B-176 (2-4)	Total/NA	Solid	Moisture	
500-69547-17	B-176 (12-14)	Total/NA	Solid	Moisture	
500-69547-18	B-176 (18.5-20.5)	Total/NA	Solid	Moisture	
500-69547-19	B-178 (2-4)	Total/NA	Solid	Moisture	
500-69547-20	B-178 (6-7.5)	Total/NA	Solid	Moisture	
500-69547-21	B-182 (5.1-7.1)	Total/NA	Solid	Moisture	
500-69547-22	B-182 (13.5-15.5)	Total/NA	Solid	Moisture	
500-69547-23	B-148 (10-12)	Total/NA	Solid	Moisture	
500-69547-24	B-148 (17.5-19.5)	Total/NA	Solid	Moisture	
500-69547-25	B-180 (0-2)	Total/NA	Solid	Moisture	
500-69547-26	B-180 (4-6)	Total/NA	Solid	Moisture	
500-69547-27	B-180 (14.6-16.6)	Total/NA	Solid	Moisture	
500-69547-27 DU	B-180 (14.6-16.6)	Total/NA	Solid	Moisture	
500-69547-28	B-150 (13-15)	Total/NA	Solid	Moisture	
500-69547-29	B-150 (18-20)	Total/NA	Solid	Moisture	

Surrogate Summary

Client: ARCADIS U.S., Inc.
Project/Site: MadisonKipp

TestAmerica Job ID: 500-69547-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		12DCE	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(75-125)	(75-120)	(75-120)	(75-120)
500-69547-1	B-178 (9-11)	100	94	100	107
500-69547-2	B-188 (2-4)	102	94	103	108
500-69547-3	B-188 (9-11)	96	93	100	108
500-69547-4	B-188 (13-15)	101	94	102	107
500-69547-5	B-149 (8-10)	103	95	102	106
500-69547-6	B-149 (10-11.4)	101	93	102	105
500-69547-7	B-181 (1.5-3.5)	102	100	103	106
500-69547-8	B-181 (4-6)	103	99	102	105
500-69547-9	B-181 (8.4-10.4)	101	94	103	107
500-69547-10	B-182 (1.2-3.2)	97	97	102	107
500-69547-11	B-158 (8-9)	100	96	101	106
500-69547-12	B-158 (10-12)	100	97	99	106
500-69547-13	B-175 (2-4)	98	92	101	105
500-69547-14	B-175 (14-16)	100	93	100	107
500-69547-15	B-175 (18.5-20.5)	97	95	101	108
500-69547-16	B-176 (2-4)	100	93	101	106
500-69547-16 MS	B-176 (2-4)	96	102	98	106
500-69547-16 MSD	B-176 (2-4)	97	103	99	106
500-69547-17	B-176 (12-14)	100	98	100	108
500-69547-17 MS	B-176 (12-14)	96	102	100	107
500-69547-17 MSD	B-176 (12-14)	95	103	100	106
500-69547-18	B-176 (18.5-20.5)	98	98	103	107
500-69547-19	B-178 (2-4)	103	97	104	107
500-69547-20	B-178 (6-7.5)	99	97	103	107
500-69547-21	B-182 (5.1-7.1)	103	96	103	105
500-69547-22	B-182 (13.5-15.5)	106	98	103	107
500-69547-23	B-148 (10-12)	106	98	105	107
500-69547-24	B-148 (17.5-19.5)	103	98	103	108
500-69547-25	B-180 (0-2)	107	103	105	108
500-69547-26	B-180 (4-6)	101	100	103	106
500-69547-27	B-180 (14.6-16.6)	104	99	102	106
500-69547-28	B-150 (13-15)	108	93	104	106
500-69547-29	B-150 (18-20)	105	92	104	106
500-69547-30	Trip Blank	100	96	104	108
500-69547-31	Trip Blank	101	93	103	106
LB3 500-218769/19-A	Method Blank	103	93	105	106
LB3 500-218770/14-A	Method Blank	102	95	101	106
LCS 500-218769/20-A	Lab Control Sample	94	102	100	108
LCS 500-218770/15-A	Lab Control Sample	97	104	99	106
LCS 500-218825/4	Lab Control Sample	92	102	96	107
LCS 500-218983/4	Lab Control Sample	96	104	99	108
LCS 500-219128/4	Lab Control Sample	93	103	97	107
MB 500-218825/6	Method Blank	95	96	101	106
MB 500-218983/6	Method Blank	99	95	101	107
MB 500-219128/6	Method Blank	103	97	102	108

Surrogate Legend

12DCE = 1,2-Dichloroethane-d4 (Surr)

BFB = 4-Bromofluorobenzene (Surr)

DBFM = Dibromofluoromethane
TOL = Toluene-d8 (Surr)

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		TCX1	DCB1
Lab Sample ID	Client Sample ID	(50-116)	(48-142)
500-69547-1	B-178 (9-11)	77	89
500-69547-1 MS	B-178 (9-11)	82	91
500-69547-1 MSD	B-178 (9-11)	74	85
500-69547-2	B-188 (2-4)	97	96
500-69547-3	B-188 (9-11)	73	85
500-69547-4	B-188 (13-15)	77	83
500-69547-5	B-149 (8-10)	0 D	0 D
500-69547-6	B-149 (10-11.4)	0 D	0 D
500-69547-7	B-181 (1.5-3.5)	0 D	0 D
500-69547-8	B-181 (4-6)	0 D	0 D
500-69547-9	B-181 (8.4-10.4)	0 D	0 D
500-69547-10	B-182 (1.2-3.2)	0 D	0 D
500-69547-11	B-158 (8-9)	0 D	0 D
500-69547-12	B-158 (10-12)	0 D	0 D
500-69547-13	B-175 (2-4)	69	91
500-69547-14	B-175 (14-16)	67	96
500-69547-15	B-175 (18.5-20.5)	70	102
500-69547-16	B-176 (2-4)	83	112
500-69547-17	B-176 (12-14)	68	88
500-69547-18	B-176 (18.5-20.5)	66	102
500-69547-19	B-178 (2-4)	79	111
500-69547-20	B-178 (6-7.5)	70	114
500-69547-21	B-182 (5.1-7.1)	0 D	0 D
500-69547-21 MS	B-182 (5.1-7.1)	0 D	0 D
500-69547-21 MSD	B-182 (5.1-7.1)	0 D	0 D
500-69547-22	B-182 (13.5-15.5)	0 D	0 D
500-69547-23	B-148 (10-12)	0 D	0 D
500-69547-24	B-148 (17.5-19.5)	76	95
500-69547-25	B-180 (0-2)	0 D	0 D
500-69547-26	B-180 (4-6)	0 D	0 D
500-69547-27	B-180 (14.6-16.6)	0 D	0 D
500-69547-28	B-150 (13-15)	0 D	0 D
500-69547-29	B-150 (18-20)	77	98
LCS 500-218759/2-A	Lab Control Sample	75	89
LCS 500-218836/2-A	Lab Control Sample	77	90
MB 500-218759/1-A	Method Blank	68	77
MB 500-218836/1-A	Method Blank	79	93

Surrogate Legend

TCX = Tetrachloro-m-xylene
DCB = DCB Decachlorobiphenyl

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: LB3 500-218769/19-A
Matrix: Solid
Analysis Batch: 218825

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 218769

Analyte	LB3 Result	LB3 Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<17		100	17	ug/Kg		01/03/14 19:00	01/07/14 18:52	50
1,1,1-Trichloroethane	<10		50	10	ug/Kg		01/03/14 19:00	01/07/14 18:52	50
1,1,2,2-Tetrachloroethane	<12		50	12	ug/Kg		01/03/14 19:00	01/07/14 18:52	50
1,1,2-Trichloroethane	<14		50	14	ug/Kg		01/03/14 19:00	01/07/14 18:52	50
1,1-Dichloroethane	<9.3		50	9.3	ug/Kg		01/03/14 19:00	01/07/14 18:52	50
1,1-Dichloroethene	<15		50	15	ug/Kg		01/03/14 19:00	01/07/14 18:52	50
1,1-Dichloropropene	<17		50	17	ug/Kg		01/03/14 19:00	01/07/14 18:52	50
1,2,3-Trichlorobenzene	<18		100	18	ug/Kg		01/03/14 19:00	01/07/14 18:52	50
1,2,3-Trichloropropane	<29		100	29	ug/Kg		01/03/14 19:00	01/07/14 18:52	50
1,2,4-Trichlorobenzene	<19		100	19	ug/Kg		01/03/14 19:00	01/07/14 18:52	50
1,2,4-Trimethylbenzene	<11		100	11	ug/Kg		01/03/14 19:00	01/07/14 18:52	50
1,2-Dibromo-3-Chloropropane	<44		100	44	ug/Kg		01/03/14 19:00	01/07/14 18:52	50
1,2-Dibromoethane	<16		100	16	ug/Kg		01/03/14 19:00	01/07/14 18:52	50
1,2-Dichlorobenzene	<10		100	10	ug/Kg		01/03/14 19:00	01/07/14 18:52	50
1,2-Dichloroethane	<14		50	14	ug/Kg		01/03/14 19:00	01/07/14 18:52	50
1,2-Dichloropropane	<9.8		50	9.8	ug/Kg		01/03/14 19:00	01/07/14 18:52	50
1,3,5-Trimethylbenzene	<10		100	10	ug/Kg		01/03/14 19:00	01/07/14 18:52	50
1,3-Dichlorobenzene	<13		100	13	ug/Kg		01/03/14 19:00	01/07/14 18:52	50
1,3-Dichloropropane	<6.7		50	6.7	ug/Kg		01/03/14 19:00	01/07/14 18:52	50
1,4-Dichlorobenzene	<8.7		100	8.7	ug/Kg		01/03/14 19:00	01/07/14 18:52	50
2,2-Dichloropropane	<16		50	16	ug/Kg		01/03/14 19:00	01/07/14 18:52	50
2-Chlorotoluene	<10		50	10	ug/Kg		01/03/14 19:00	01/07/14 18:52	50
4-Chlorotoluene	<9.9		50	9.9	ug/Kg		01/03/14 19:00	01/07/14 18:52	50
Benzene	<3.7		13	3.7	ug/Kg		01/03/14 19:00	01/07/14 18:52	50
Bromobenzene	<21		100	21	ug/Kg		01/03/14 19:00	01/07/14 18:52	50
Bromochloromethane	<19		100	19	ug/Kg		01/03/14 19:00	01/07/14 18:52	50
Bromodichloromethane	<17		100	17	ug/Kg		01/03/14 19:00	01/07/14 18:52	50
Bromoform	<22		100	22	ug/Kg		01/03/14 19:00	01/07/14 18:52	50
Bromomethane	<34		100	34	ug/Kg		01/03/14 19:00	01/07/14 18:52	50
Carbon tetrachloride	<13		50	13	ug/Kg		01/03/14 19:00	01/07/14 18:52	50
Chlorobenzene	<7.2		50	7.2	ug/Kg		01/03/14 19:00	01/07/14 18:52	50
Chloroethane	<22		100	22	ug/Kg		01/03/14 19:00	01/07/14 18:52	50
Chloroform	<10		50	10	ug/Kg		01/03/14 19:00	01/07/14 18:52	50
Chloromethane	<23		100	23	ug/Kg		01/03/14 19:00	01/07/14 18:52	50
cis-1,2-Dichloroethene	<6.2		50	6.2	ug/Kg		01/03/14 19:00	01/07/14 18:52	50
cis-1,3-Dichloropropene	<8.9		50	8.9	ug/Kg		01/03/14 19:00	01/07/14 18:52	50
Dibromochloromethane	<17		100	17	ug/Kg		01/03/14 19:00	01/07/14 18:52	50
Dibromomethane	<24		100	24	ug/Kg		01/03/14 19:00	01/07/14 18:52	50
Dichlorodifluoromethane	<26		100	26	ug/Kg		01/03/14 19:00	01/07/14 18:52	50
Ethylbenzene	<6.3		13	6.3	ug/Kg		01/03/14 19:00	01/07/14 18:52	50
Hexachlorobutadiene	<17		100	17	ug/Kg		01/03/14 19:00	01/07/14 18:52	50
Isopropyl ether	<7.4		100	7.4	ug/Kg		01/03/14 19:00	01/07/14 18:52	50
Isopropylbenzene	<13		100	13	ug/Kg		01/03/14 19:00	01/07/14 18:52	50
Methyl tert-butyl ether	<22		100	22	ug/Kg		01/03/14 19:00	01/07/14 18:52	50
Methylene Chloride	<34		250	34	ug/Kg		01/03/14 19:00	01/07/14 18:52	50
Naphthalene	<25		100	25	ug/Kg		01/03/14 19:00	01/07/14 18:52	50
n-Butylbenzene	<6.5		50	6.5	ug/Kg		01/03/14 19:00	01/07/14 18:52	50
N-Propylbenzene	<8.8		100	8.8	ug/Kg		01/03/14 19:00	01/07/14 18:52	50

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LB3 500-218769/19-A
Matrix: Solid
Analysis Batch: 218825

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 218769

Analyte	LB3 Result	LB3 Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
p-Isopropyltoluene	<9.3		100	9.3	ug/Kg		01/03/14 19:00	01/07/14 18:52	50
sec-Butylbenzene	<7.7		50	7.7	ug/Kg		01/03/14 19:00	01/07/14 18:52	50
Styrene	<4.9		50	4.9	ug/Kg		01/03/14 19:00	01/07/14 18:52	50
tert-Butylbenzene	<6.8		50	6.8	ug/Kg		01/03/14 19:00	01/07/14 18:52	50
Tetrachloroethene	<8.4		50	8.4	ug/Kg		01/03/14 19:00	01/07/14 18:52	50
Toluene	<5.8		13	5.8	ug/Kg		01/03/14 19:00	01/07/14 18:52	50
trans-1,2-Dichloroethene	<13		50	13	ug/Kg		01/03/14 19:00	01/07/14 18:52	50
trans-1,3-Dichloropropene	<10		50	10	ug/Kg		01/03/14 19:00	01/07/14 18:52	50
Trichloroethene	<9.3		25	9.3	ug/Kg		01/03/14 19:00	01/07/14 18:52	50
Trichlorofluoromethane	<21		100	21	ug/Kg		01/03/14 19:00	01/07/14 18:52	50
Vinyl chloride	<5.2		13	5.2	ug/Kg		01/03/14 19:00	01/07/14 18:52	50
Xylenes, Total	<3.4		25	3.4	ug/Kg		01/03/14 19:00	01/07/14 18:52	50

Surrogate	*LB3 %Recovery*	*LB3 Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*75 - 125*	*01/03/14 19:00*	*01/07/14 18:52*	*50*
4-Bromofluorobenzene (Surr)	*93*		*75 - 120*	*01/03/14 19:00*	*01/07/14 18:52*	*50*
Dibromofluoromethane	*105*		*75 - 120*	*01/03/14 19:00*	*01/07/14 18:52*	*50*
Toluene-d8 (Surr)	*106*		*75 - 120*	*01/03/14 19:00*	*01/07/14 18:52*	*50*

Lab Sample ID: LCS 500-218769/20-A
Matrix: Solid
Analysis Batch: 218825

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 218769

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	2500	2210		ug/Kg		88	75 - 120
1,1,1-Trichloroethane	2500	2190		ug/Kg		87	70 - 123
1,1,2,2-Tetrachloroethane	2500	1770		ug/Kg		71	70 - 128
1,1,2-Trichloroethane	2500	2000		ug/Kg		80	69 - 120
1,1-Dichloroethane	2500	2140		ug/Kg		86	68 - 121
1,1-Dichloroethene	2500	2060		ug/Kg		82	58 - 122
1,1-Dichloropropene	2500	2190		ug/Kg		88	70 - 120
1,2,3-Trichlorobenzene	2500	1870		ug/Kg		75	56 - 137
1,2,3-Trichloropropane	2500	1840		ug/Kg		74	70 - 120
1,2,4-Trichlorobenzene	2500	1860		ug/Kg		74	65 - 121
1,2,4-Trimethylbenzene	2500	2310		ug/Kg		92	75 - 121
1,2-Dibromo-3-Chloropropane	2500	1720		ug/Kg		69	60 - 121
1,2-Dibromoethane	2500	1940		ug/Kg		78	70 - 120
1,2-Dichlorobenzene	2500	2060		ug/Kg		83	75 - 120
1,2-Dichloroethane	2500	1970		ug/Kg		79	69 - 120
1,2-Dichloropropane	2500	2150		ug/Kg		86	70 - 120
1,3,5-Trimethylbenzene	2500	2310		ug/Kg		92	75 - 123
1,3-Dichlorobenzene	2500	2090		ug/Kg		84	70 - 120
1,3-Dichloropropane	2500	2030		ug/Kg		81	70 - 120
1,4-Dichlorobenzene	2500	2010		ug/Kg		80	75 - 120
2,2-Dichloropropane	2500	2180		ug/Kg		87	67 - 125
2-Chlorotoluene	2500	2210		ug/Kg		88	70 - 120
4-Chlorotoluene	2500	2210		ug/Kg		88	70 - 120
Benzene	2500	2180		ug/Kg		87	70 - 120

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-218769/20-A
Matrix: Solid
Analysis Batch: 218825

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 218769

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Bromobenzene	2500	2130		ug/Kg		85	70 - 120
Bromochloromethane	2500	2180		ug/Kg		87	67 - 122
Bromodichloromethane	2500	2110		ug/Kg		84	70 - 120
Bromoform	2500	1920		ug/Kg		77	70 - 125
Bromomethane	2500	1910		ug/Kg		76	50 - 150
Carbon tetrachloride	2500	2360		ug/Kg		94	70 - 125
Chlorobenzene	2500	2180		ug/Kg		87	70 - 120
Chloroethane	2500	2130		ug/Kg		85	50 - 150
Chloroform	2500	2100		ug/Kg		84	70 - 120
Chloromethane	2500	1330		ug/Kg		53	50 - 134
cis-1,2-Dichloroethene	2500	2270		ug/Kg		91	70 - 120
cis-1,3-Dichloropropene	2500	2090		ug/Kg		84	70 - 120
Dibromochloromethane	2500	2060		ug/Kg		83	70 - 120
Dibromomethane	2500	1970		ug/Kg		79	70 - 120
Dichlorodifluoromethane	2500	894	*	ug/Kg		36	40 - 140
Ethylbenzene	2500	2330		ug/Kg		93	75 - 120
Hexachlorobutadiene	2500	2170		ug/Kg		87	65 - 135
Isopropylbenzene	2500	2290		ug/Kg		92	70 - 120
Methyl tert-butyl ether	2500	1830		ug/Kg		73	58 - 122
Methylene Chloride	2500	1910		ug/Kg		76	65 - 125
Naphthalene	2500	1680		ug/Kg		67	55 - 132
n-Butylbenzene	2500	2130		ug/Kg		85	75 - 120
N-Propylbenzene	2500	2220		ug/Kg		89	70 - 120
p-Isopropyltoluene	2500	2320		ug/Kg		93	70 - 120
sec-Butylbenzene	2500	2290		ug/Kg		92	70 - 120
Styrene	2500	2290		ug/Kg		91	75 - 120
tert-Butylbenzene	2500	2320		ug/Kg		93	70 - 120
Tetrachloroethene	2500	2220		ug/Kg		89	70 - 123
Toluene	2500	2320		ug/Kg		93	70 - 120
trans-1,2-Dichloroethene	2500	2120		ug/Kg		85	70 - 124
trans-1,3-Dichloropropene	2500	1990		ug/Kg		79	70 - 120
Trichloroethene	2500	2280		ug/Kg		91	70 - 120
Trichlorofluoromethane	2500	1890		ug/Kg		75	63 - 134
Vinyl chloride	2500	1570		ug/Kg		63	62 - 138
Xylenes, Total	5000	4580		ug/Kg		92	70 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*94*		*75 - 125*
4-Bromofluorobenzene (Surr)	*102*		*75 - 120*
Dibromofluoromethane	*100*		*75 - 120*
Toluene-d8 (Surr)	*108*		*75 - 120*

Lab Sample ID: 500-69547-16 MS
Matrix: Solid
Analysis Batch: 218825

Client Sample ID: B-176 (2-4)
Prep Type: Total/NA
Prep Batch: 218769

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	<39		5600	5540		ug/Kg	☼	99	75 - 120

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 500-69547-16 MS
Matrix: Solid
Analysis Batch: 218825

Client Sample ID: B-176 (2-4)
Prep Type: Total/NA
Prep Batch: 218769

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	<23		5600	5280		ug/Kg	☼	94	70 - 123
1,1,2,2-Tetrachloroethane	<26		5600	4760		ug/Kg	☼	85	70 - 128
1,1,2-Trichloroethane	<31		5600	5110		ug/Kg	☼	91	69 - 120
1,1-Dichloroethane	<21		5600	5080		ug/Kg	☼	91	68 - 121
1,1-Dichloroethene	<34		5600	4710		ug/Kg	☼	84	58 - 122
1,1-Dichloropropene	<39		5600	5180		ug/Kg	☼	93	70 - 120
1,2,3-Trichlorobenzene	<39		5600	4890		ug/Kg	☼	87	56 - 137
1,2,3-Trichloropropane	<64		5600	3610	F1	ug/Kg	☼	64	70 - 120
1,2,4-Trichlorobenzene	<42		5600	4930		ug/Kg	☼	88	65 - 121
1,2,4-Trimethylbenzene	<24		5600	5830		ug/Kg	☼	104	75 - 121
1,2-Dibromo-3-Chloropropane	<98		5600	4370		ug/Kg	☼	78	60 - 121
1,2-Dibromoethane	<35		5600	5010		ug/Kg	☼	89	70 - 120
1,2-Dichlorobenzene	<23		5600	5300		ug/Kg	☼	95	75 - 120
1,2-Dichloroethane	<32		5600	4780		ug/Kg	☼	85	69 - 120
1,2-Dichloropropane	<22		5600	5090		ug/Kg	☼	91	70 - 120
1,3,5-Trimethylbenzene	<23		5600	5830		ug/Kg	☼	104	75 - 123
1,3-Dichlorobenzene	<29		5600	5330		ug/Kg	☼	95	70 - 120
1,3-Dichloropropane	<15		5600	5090		ug/Kg	☼	91	70 - 120
1,4-Dichlorobenzene	<20		5600	5240		ug/Kg	☼	93	75 - 120
2,2-Dichloropropane	<35		5600	5180		ug/Kg	☼	92	67 - 125
2-Chlorotoluene	<23		5600	5560		ug/Kg	☼	99	70 - 120
4-Chlorotoluene	<22		5600	5610		ug/Kg	☼	100	70 - 120
Benzene	<8.3		5600	5150		ug/Kg	☼	92	70 - 120
Bromobenzene	<48		5600	5500		ug/Kg	☼	98	70 - 120
Bromochloromethane	<42		5600	5210		ug/Kg	☼	93	67 - 122
Bromodichloromethane	<38		5600	5160		ug/Kg	☼	92	70 - 120
Bromoform	<49		5600	4900		ug/Kg	☼	88	70 - 125
Bromomethane	<76		5600	5090		ug/Kg	☼	91	50 - 150
Carbon tetrachloride	<29		5600	5530		ug/Kg	☼	99	70 - 125
Chlorobenzene	<16		5600	5400		ug/Kg	☼	96	70 - 120
Chloroethane	<49		5600	5820		ug/Kg	☼	104	50 - 150
Chloroform	<23		5600	4930		ug/Kg	☼	88	70 - 120
Chloromethane	<52		5600	4620		ug/Kg	☼	82	50 - 134
cis-1,2-Dichloroethene	<14		5600	5170		ug/Kg	☼	92	70 - 120
cis-1,3-Dichloropropene	<20		5600	5180		ug/Kg	☼	92	70 - 120
Dibromochloromethane	<39		5600	5220		ug/Kg	☼	93	70 - 120
Dibromomethane	<54		5600	4900		ug/Kg	☼	87	70 - 120
Dichlorodifluoromethane	<57	*	5600	4570		ug/Kg	☼	82	40 - 140
Ethylbenzene	<14		5600	5770		ug/Kg	☼	103	75 - 120
Hexachlorobutadiene	<39		5600	5530		ug/Kg	☼	99	65 - 135
Isopropylbenzene	<28		5600	5810		ug/Kg	☼	104	70 - 120
Methyl tert-butyl ether	<48		5600	4570		ug/Kg	☼	82	58 - 122
Methylene Chloride	<77		5600	4800		ug/Kg	☼	86	65 - 125
Naphthalene	<55		5600	4660		ug/Kg	☼	83	55 - 132
n-Butylbenzene	<14		5600	5420		ug/Kg	☼	97	75 - 120
N-Propylbenzene	<20		5600	5660		ug/Kg	☼	101	70 - 120
p-Isopropyltoluene	<21		5600	5800		ug/Kg	☼	103	70 - 120
sec-Butylbenzene	<17		5600	5750		ug/Kg	☼	103	70 - 120

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 500-69547-16 MS
Matrix: Solid
Analysis Batch: 218825

Client Sample ID: B-176 (2-4)
Prep Type: Total/NA
Prep Batch: 218769

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Styrene	<11		5600	5710		ug/Kg	☼	102	75 - 120
tert-Butylbenzene	<15		5600	5930		ug/Kg	☼	106	70 - 120
Tetrachloroethene	<19		5600	5420		ug/Kg	☼	97	70 - 123
Toluene	83		5600	5600		ug/Kg	☼	99	70 - 120
trans-1,2-Dichloroethene	<28		5600	5050		ug/Kg	☼	90	70 - 124
trans-1,3-Dichloropropene	<23		5600	5120		ug/Kg	☼	91	70 - 120
Trichloroethene	<21		5600	5490		ug/Kg	☼	98	70 - 120
Trichlorofluoromethane	<47		5600	5300		ug/Kg	☼	95	63 - 134
Vinyl chloride	<12		5600	5070		ug/Kg	☼	90	62 - 138
Xylenes, Total	<7.7		11200	11300		ug/Kg	☼	101	70 - 120

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*96*		*75 - 125*
4-Bromofluorobenzene (Surr)	*102*		*75 - 120*
Dibromofluoromethane	*98*		*75 - 120*
Toluene-d8 (Surr)	*106*		*75 - 120*

Lab Sample ID: 500-69547-16 MSD
Matrix: Solid
Analysis Batch: 218825

Client Sample ID: B-176 (2-4)
Prep Type: Total/NA
Prep Batch: 218769

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	<39		5600	5530		ug/Kg	☼	99	75 - 120	0	30
1,1,1-Trichloroethane	<23		5600	5160		ug/Kg	☼	92	70 - 123	2	30
1,1,2,2-Tetrachloroethane	<26		5600	4690		ug/Kg	☼	84	70 - 128	2	30
1,1,2-Trichloroethane	<31		5600	4990		ug/Kg	☼	89	69 - 120	2	30
1,1-Dichloroethane	<21		5600	4960		ug/Kg	☼	89	68 - 121	2	30
1,1-Dichloroethene	<34		5600	4610		ug/Kg	☼	82	58 - 122	2	30
1,1-Dichloropropene	<39		5600	5120		ug/Kg	☼	91	70 - 120	1	30
1,2,3-Trichlorobenzene	<39		5600	4850		ug/Kg	☼	87	56 - 137	1	30
1,2,3-Trichloropropane	<64		5600	4850		ug/Kg	☼	87	70 - 120	29	30
1,2,4-Trichlorobenzene	<42		5600	4900		ug/Kg	☼	87	65 - 121	1	30
1,2,4-Trimethylbenzene	<24		5600	5620		ug/Kg	☼	100	75 - 121	4	30
1,2-Dibromo-3-Chloropropane	<98		5600	4440		ug/Kg	☼	79	60 - 121	2	30
1,2-Dibromoethane	<35		5600	4960		ug/Kg	☼	89	70 - 120	1	30
1,2-Dichlorobenzene	<23		5600	5190		ug/Kg	☼	93	75 - 120	2	30
1,2-Dichloroethane	<32		5600	4820		ug/Kg	☼	86	69 - 120	1	30
1,2-Dichloropropane	<22		5600	5140		ug/Kg	☼	92	70 - 120	1	30
1,3,5-Trimethylbenzene	<23		5600	5640		ug/Kg	☼	101	75 - 123	3	30
1,3-Dichlorobenzene	<29		5600	5210		ug/Kg	☼	93	70 - 120	2	30
1,3-Dichloropropane	<15		5600	5040		ug/Kg	☼	90	70 - 120	1	30
1,4-Dichlorobenzene	<20		5600	5110		ug/Kg	☼	91	75 - 120	3	30
2,2-Dichloropropane	<35		5600	5160		ug/Kg	☼	92	67 - 125	0	30
2-Chlorotoluene	<23		5600	5390		ug/Kg	☼	96	70 - 120	3	30
4-Chlorotoluene	<22		5600	5420		ug/Kg	☼	97	70 - 120	4	30
Benzene	<8.3		5600	5130		ug/Kg	☼	91	70 - 120	1	30
Bromobenzene	<48		5600	5340		ug/Kg	☼	95	70 - 120	3	30
Bromochloromethane	<42		5600	5230		ug/Kg	☼	93	67 - 122	0	30

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 500-69547-16 MSD
Matrix: Solid
Analysis Batch: 218825

Client Sample ID: B-176 (2-4)
Prep Type: Total/NA
Prep Batch: 218769

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Bromodichloromethane	<38		5600	5120		ug/Kg	☼	91	70 - 120	1	30
Bromoform	<49		5600	4860		ug/Kg	☼	87	70 - 125	1	30
Bromomethane	<76		5600	5190		ug/Kg	☼	93	50 - 150	2	30
Carbon tetrachloride	<29		5600	5430		ug/Kg	☼	97	70 - 125	2	30
Chlorobenzene	<16		5600	5290		ug/Kg	☼	94	70 - 120	2	30
Chloroethane	<49		5600	5800		ug/Kg	☼	104	50 - 150	0	30
Chloroform	<23		5600	4880		ug/Kg	☼	87	70 - 120	1	30
Chloromethane	<52		5600	4700		ug/Kg	☼	84	50 - 134	2	30
cis-1,2-Dichloroethene	<14		5600	5080		ug/Kg	☼	91	70 - 120	2	30
cis-1,3-Dichloropropene	<20		5600	5200		ug/Kg	☼	93	70 - 120	0	30
Dibromochloromethane	<39		5600	5160		ug/Kg	☼	92	70 - 120	1	30
Dibromomethane	<54		5600	4820		ug/Kg	☼	86	70 - 120	2	30
Dichlorodifluoromethane	<57	*	5600	4650		ug/Kg	☼	83	40 - 140	2	30
Ethylbenzene	<14		5600	5570		ug/Kg	☼	99	75 - 120	4	30
Hexachlorobutadiene	<39		5600	5360		ug/Kg	☼	96	65 - 135	3	30
Isopropylbenzene	<28		5600	5610		ug/Kg	☼	100	70 - 120	3	30
Methyl tert-butyl ether	<48		5600	4620		ug/Kg	☼	82	58 - 122	1	30
Methylene Chloride	<77		5600	4850		ug/Kg	☼	87	65 - 125	1	30
Naphthalene	<55		5600	4730		ug/Kg	☼	84	55 - 132	1	30
n-Butylbenzene	<14		5600	5230		ug/Kg	☼	93	75 - 120	4	30
N-Propylbenzene	<20		5600	5450		ug/Kg	☼	97	70 - 120	4	30
p-Isopropyltoluene	<21		5600	5630		ug/Kg	☼	101	70 - 120	3	30
sec-Butylbenzene	<17		5600	5570		ug/Kg	☼	99	70 - 120	3	30
Styrene	<11		5600	5620		ug/Kg	☼	100	75 - 120	2	30
tert-Butylbenzene	<15		5600	5740		ug/Kg	☼	102	70 - 120	3	30
Tetrachloroethene	<19		5600	5330		ug/Kg	☼	95	70 - 123	2	30
Toluene	83		5600	5500		ug/Kg	☼	97	70 - 120	2	30
trans-1,2-Dichloroethene	<28		5600	4950		ug/Kg	☼	88	70 - 124	2	30
trans-1,3-Dichloropropene	<23		5600	5140		ug/Kg	☼	92	70 - 120	0	30
Trichloroethene	<21		5600	5300		ug/Kg	☼	95	70 - 120	3	30
Trichlorofluoromethane	<47		5600	5340		ug/Kg	☼	95	63 - 134	1	30
Vinyl chloride	<12		5600	5110		ug/Kg	☼	91	62 - 138	1	30
Xylenes, Total	<7.7		11200	11000		ug/Kg	☼	99	70 - 120	3	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*97*		*75 - 125*
4-Bromofluorobenzene (Surr)	*103*		*75 - 120*
Dibromofluoromethane	*99*		*75 - 120*
Toluene-d8 (Surr)	*106*		*75 - 120*

Lab Sample ID: 500-69547-17 MS
Matrix: Solid
Analysis Batch: 218983

Client Sample ID: B-176 (12-14)
Prep Type: Total/NA
Prep Batch: 218769

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	<27		3850	3960		ug/Kg	☼	103	75 - 120
1,1,1-Trichloroethane	<15		3850	3560		ug/Kg	☼	92	70 - 123
1,1,2,2-Tetrachloroethane	<18		3850	3580		ug/Kg	☼	93	70 - 128

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 500-69547-17 MS
Matrix: Solid
Analysis Batch: 218983

Client Sample ID: B-176 (12-14)
Prep Type: Total/NA
Prep Batch: 218769

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,2-Trichloroethane	<21		3850	3720		ug/Kg	☼	97	69 - 120
1,1-Dichloroethane	<14		3850	3450		ug/Kg	☼	90	68 - 121
1,1-Dichloroethene	<24		3850	3180		ug/Kg	☼	83	58 - 122
1,1-Dichloropropene	<26		3850	3560		ug/Kg	☼	93	70 - 120
1,2,3-Trichlorobenzene	<27		3850	3620		ug/Kg	☼	94	56 - 137
1,2,3-Trichloropropane	<44		3850	3580		ug/Kg	☼	93	70 - 120
1,2,4-Trichlorobenzene	<29		3850	3640		ug/Kg	☼	95	65 - 121
1,2,4-Trimethylbenzene	<16		3850	3980		ug/Kg	☼	103	75 - 121
1,2-Dibromo-3-Chloropropane	<67		3850	3380		ug/Kg	☼	88	60 - 121
1,2-Dibromoethane	<24		3850	3610		ug/Kg	☼	94	70 - 120
1,2-Dichlorobenzene	<16		3850	3730		ug/Kg	☼	97	75 - 120
1,2-Dichloroethane	<22		3850	3460		ug/Kg	☼	90	69 - 120
1,2-Dichloropropane	<15		3850	3670		ug/Kg	☼	95	70 - 120
1,3,5-Trimethylbenzene	<16		3850	3920		ug/Kg	☼	102	75 - 123
1,3-Dichlorobenzene	<20		3850	3730		ug/Kg	☼	97	70 - 120
1,3-Dichloropropane	<10		3850	3680		ug/Kg	☼	96	70 - 120
1,4-Dichlorobenzene	<13		3850	3700		ug/Kg	☼	96	75 - 120
2,2-Dichloropropane	<24		3850	3490		ug/Kg	☼	91	67 - 125
2-Chlorotoluene	<16		3850	3840		ug/Kg	☼	100	70 - 120
4-Chlorotoluene	<15		3850	3840		ug/Kg	☼	100	70 - 120
Benzene	<5.7		3850	3600		ug/Kg	☼	94	70 - 120
Bromobenzene	<33		3850	3820		ug/Kg	☼	99	70 - 120
Bromochloromethane	<29		3850	3740		ug/Kg	☼	97	67 - 122
Bromodichloromethane	<26		3850	3720		ug/Kg	☼	97	70 - 120
Bromoform	<34		3850	3700		ug/Kg	☼	96	70 - 125
Bromomethane	<53		3850	3340		ug/Kg	☼	87	50 - 150
Carbon tetrachloride	<20		3850	3710		ug/Kg	☼	96	70 - 125
Chlorobenzene	<11		3850	3720		ug/Kg	☼	97	70 - 120
Chloroethane	<33		3850	3370		ug/Kg	☼	87	50 - 150
Chloroform	<16		3850	3480		ug/Kg	☼	90	70 - 120
Chloromethane	<36		3850	3030		ug/Kg	☼	79	50 - 134
cis-1,2-Dichloroethene	<9.5		3850	3610		ug/Kg	☼	94	70 - 120
cis-1,3-Dichloropropene	<14		3850	3730		ug/Kg	☼	97	70 - 120
Dibromochloromethane	<27		3850	3760		ug/Kg	☼	98	70 - 120
Dibromomethane	<37		3850	3560		ug/Kg	☼	92	70 - 120
Dichlorodifluoromethane	<39	*	3850	2990		ug/Kg	☼	78	40 - 140
Ethylbenzene	<9.7		3850	3980		ug/Kg	☼	103	75 - 120
Hexachlorobutadiene	<27		3850	3820		ug/Kg	☼	99	65 - 135
Isopropylbenzene	<19		3850	3910		ug/Kg	☼	102	70 - 120
Methyl tert-butyl ether	<33		3850	3400		ug/Kg	☼	88	58 - 122
Methylene Chloride	<53		3850	3360		ug/Kg	☼	87	65 - 125
Naphthalene	<38		3850	3580		ug/Kg	☼	93	55 - 132
n-Butylbenzene	<9.9		3850	3700		ug/Kg	☼	96	75 - 120
N-Propylbenzene	<13		3850	3810		ug/Kg	☼	99	70 - 120
p-Isopropyltoluene	<14		3850	3920		ug/Kg	☼	102	70 - 120
sec-Butylbenzene	<12		3850	3870		ug/Kg	☼	100	70 - 120
Styrene	<7.6		3850	4050		ug/Kg	☼	105	75 - 120
tert-Butylbenzene	<10		3850	3950		ug/Kg	☼	103	70 - 120

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 500-69547-17 MS
Matrix: Solid
Analysis Batch: 218983

Client Sample ID: B-176 (12-14)
Prep Type: Total/NA
Prep Batch: 218769

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Tetrachloroethene	<13		3850	3660		ug/Kg	☼	95	70 - 123
Toluene	<8.9		3850	3890		ug/Kg	☼	101	70 - 120
trans-1,2-Dichloroethene	<19		3850	3410		ug/Kg	☼	89	70 - 124
trans-1,3-Dichloropropene	<16		3850	3730		ug/Kg	☼	97	70 - 120
Trichloroethene	<14		3850	3740		ug/Kg	☼	97	70 - 120
Trichlorofluoromethane	<32		3850	3590		ug/Kg	☼	93	63 - 134
Vinyl chloride	<8.0		3850	3400		ug/Kg	☼	88	62 - 138
Xylenes, Total	<5.3		7700	7830		ug/Kg	☼	102	70 - 120

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*96*		*75 - 125*
4-Bromofluorobenzene (Surr)	*102*		*75 - 120*
Dibromofluoromethane	*100*		*75 - 120*
Toluene-d8 (Surr)	*107*		*75 - 120*

Lab Sample ID: 500-69547-17 MSD
Matrix: Solid
Analysis Batch: 218983

Client Sample ID: B-176 (12-14)
Prep Type: Total/NA
Prep Batch: 218769

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	<27		3850	3820		ug/Kg	☼	99	75 - 120	4	30
1,1,1-Trichloroethane	<15		3850	3430		ug/Kg	☼	89	70 - 123	4	30
1,1,2,2-Tetrachloroethane	<18		3850	3310		ug/Kg	☼	86	70 - 128	8	30
1,1,2-Trichloroethane	<21		3850	3540		ug/Kg	☼	92	69 - 120	5	30
1,1-Dichloroethane	<14		3850	3350		ug/Kg	☼	87	68 - 121	3	30
1,1-Dichloroethene	<24		3850	3030		ug/Kg	☼	79	58 - 122	5	30
1,1-Dichloropropene	<26		3850	3400		ug/Kg	☼	88	70 - 120	5	30
1,2,3-Trichlorobenzene	<27		3850	3450		ug/Kg	☼	90	56 - 137	5	30
1,2,3-Trichloropropane	<44		3850	3100		ug/Kg	☼	81	70 - 120	14	30
1,2,4-Trichlorobenzene	<29		3850	3430		ug/Kg	☼	89	65 - 121	6	30
1,2,4-Trimethylbenzene	<16		3850	3790		ug/Kg	☼	98	75 - 121	5	30
1,2-Dibromo-3-Chloropropane	<67		3850	3170		ug/Kg	☼	82	60 - 121	7	30
1,2-Dibromoethane	<24		3850	3460		ug/Kg	☼	90	70 - 120	4	30
1,2-Dichlorobenzene	<16		3850	3560		ug/Kg	☼	92	75 - 120	5	30
1,2-Dichloroethane	<22		3850	3330		ug/Kg	☼	86	69 - 120	4	30
1,2-Dichloropropane	<15		3850	3540		ug/Kg	☼	92	70 - 120	4	30
1,3,5-Trimethylbenzene	<16		3850	3740		ug/Kg	☼	97	75 - 123	5	30
1,3-Dichlorobenzene	<20		3850	3540		ug/Kg	☼	92	70 - 120	5	30
1,3-Dichloropropane	<10		3850	3550		ug/Kg	☼	92	70 - 120	4	30
1,4-Dichlorobenzene	<13		3850	3420		ug/Kg	☼	89	75 - 120	8	30
2,2-Dichloropropane	<24		3850	3400		ug/Kg	☼	88	67 - 125	3	30
2-Chlorotoluene	<16		3850	3610		ug/Kg	☼	94	70 - 120	6	30
4-Chlorotoluene	<15		3850	3600		ug/Kg	☼	94	70 - 120	6	30
Benzene	<5.7		3850	3440		ug/Kg	☼	89	70 - 120	5	30
Bromobenzene	<33		3850	3640		ug/Kg	☼	95	70 - 120	5	30
Bromochloromethane	<29		3850	3480		ug/Kg	☼	90	67 - 122	7	30
Bromodichloromethane	<26		3850	3520		ug/Kg	☼	91	70 - 120	5	30
Bromoform	<34		3850	3460		ug/Kg	☼	90	70 - 125	6	30

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 500-69547-17 MSD
Matrix: Solid
Analysis Batch: 218983

Client Sample ID: B-176 (12-14)
Prep Type: Total/NA
Prep Batch: 218769

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Bromomethane	<53		3850	3480		ug/Kg	☼	91	50 - 150	4	30
Carbon tetrachloride	<20		3850	3560		ug/Kg	☼	93	70 - 125	4	30
Chlorobenzene	<11		3850	3630		ug/Kg	☼	94	70 - 120	2	30
Chloroethane	<33		3850	3610		ug/Kg	☼	94	50 - 150	7	30
Chloroform	<16		3850	3320		ug/Kg	☼	86	70 - 120	5	30
Chloromethane	<36		3850	3080		ug/Kg	☼	80	50 - 134	2	30
cis-1,2-Dichloroethene	<9.5		3850	3440		ug/Kg	☼	89	70 - 120	5	30
cis-1,3-Dichloropropene	<14		3850	3630		ug/Kg	☼	94	70 - 120	3	30
Dibromochloromethane	<27		3850	3580		ug/Kg	☼	93	70 - 120	5	30
Dibromomethane	<37		3850	3300		ug/Kg	☼	86	70 - 120	7	30
Dichlorodifluoromethane	<39	*	3850	2970		ug/Kg	☼	77	40 - 140	0	30
Ethylbenzene	<9.7		3850	3820		ug/Kg	☼	99	75 - 120	4	30
Hexachlorobutadiene	<27		3850	3590		ug/Kg	☼	93	65 - 135	6	30
Isopropylbenzene	<19		3850	3700		ug/Kg	☼	96	70 - 120	5	30
Methyl tert-butyl ether	<33		3850	3320		ug/Kg	☼	86	58 - 122	2	30
Methylene Chloride	<53		3850	3260		ug/Kg	☼	85	65 - 125	3	30
Naphthalene	<38		3850	3420		ug/Kg	☼	89	55 - 132	5	30
n-Butylbenzene	<9.9		3850	3480		ug/Kg	☼	90	75 - 120	6	30
N-Propylbenzene	<13		3850	3610		ug/Kg	☼	94	70 - 120	5	30
p-Isopropyltoluene	<14		3850	3710		ug/Kg	☼	96	70 - 120	6	30
sec-Butylbenzene	<12		3850	3660		ug/Kg	☼	95	70 - 120	6	30
Styrene	<7.6		3850	3920		ug/Kg	☼	102	75 - 120	3	30
tert-Butylbenzene	<10		3850	3800		ug/Kg	☼	99	70 - 120	4	30
Tetrachloroethene	<13		3850	3570		ug/Kg	☼	93	70 - 123	3	30
Toluene	<8.9		3850	3720		ug/Kg	☼	97	70 - 120	4	30
trans-1,2-Dichloroethene	<19		3850	3300		ug/Kg	☼	86	70 - 124	3	30
trans-1,3-Dichloropropene	<16		3850	3520		ug/Kg	☼	92	70 - 120	6	30
Trichloroethene	<14		3850	3620		ug/Kg	☼	94	70 - 120	3	30
Trichlorofluoromethane	<32		3850	3540		ug/Kg	☼	92	63 - 134	1	30
Vinyl chloride	<8.0		3850	3390		ug/Kg	☼	88	62 - 138	0	30
Xylenes, Total	<5.3		7700	7570		ug/Kg	☼	98	70 - 120	3	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*95*		*75 - 125*
4-Bromofluorobenzene (Surr)	*103*		*75 - 120*
Dibromofluoromethane	*100*		*75 - 120*
Toluene-d8 (Surr)	*106*		*75 - 120*

Lab Sample ID: LB3 500-218770/14-A
Matrix: Solid
Analysis Batch: 218983

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 218770

Analyte	LB3 Result	LB3 Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<17		100	17	ug/Kg		01/03/14 19:00	01/08/14 18:40	50
1,1,1-Trichloroethane	<10		50	10	ug/Kg		01/03/14 19:00	01/08/14 18:40	50
1,1,2,2-Tetrachloroethane	<12		50	12	ug/Kg		01/03/14 19:00	01/08/14 18:40	50
1,1,2-Trichloroethane	<14		50	14	ug/Kg		01/03/14 19:00	01/08/14 18:40	50
1,1-Dichloroethane	<9.3		50	9.3	ug/Kg		01/03/14 19:00	01/08/14 18:40	50

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LB3 500-218770/14-A
Matrix: Solid
Analysis Batch: 218983

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 218770

Analyte	LB3 Result	LB3 Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	<15		50	15	ug/Kg		01/03/14 19:00	01/08/14 18:40	50
1,1-Dichloropropene	<17		50	17	ug/Kg		01/03/14 19:00	01/08/14 18:40	50
1,2,3-Trichlorobenzene	<18		100	18	ug/Kg		01/03/14 19:00	01/08/14 18:40	50
1,2,3-Trichloropropane	<29		100	29	ug/Kg		01/03/14 19:00	01/08/14 18:40	50
1,2,4-Trichlorobenzene	<19		100	19	ug/Kg		01/03/14 19:00	01/08/14 18:40	50
1,2,4-Trimethylbenzene	<11		100	11	ug/Kg		01/03/14 19:00	01/08/14 18:40	50
1,2-Dibromo-3-Chloropropane	<44		100	44	ug/Kg		01/03/14 19:00	01/08/14 18:40	50
1,2-Dibromoethane	<16		100	16	ug/Kg		01/03/14 19:00	01/08/14 18:40	50
1,2-Dichlorobenzene	<10		100	10	ug/Kg		01/03/14 19:00	01/08/14 18:40	50
1,2-Dichloroethane	<14		50	14	ug/Kg		01/03/14 19:00	01/08/14 18:40	50
1,2-Dichloropropane	<9.8		50	9.8	ug/Kg		01/03/14 19:00	01/08/14 18:40	50
1,3,5-Trimethylbenzene	<10		100	10	ug/Kg		01/03/14 19:00	01/08/14 18:40	50
1,3-Dichlorobenzene	<13		100	13	ug/Kg		01/03/14 19:00	01/08/14 18:40	50
1,3-Dichloropropane	<6.7		50	6.7	ug/Kg		01/03/14 19:00	01/08/14 18:40	50
1,4-Dichlorobenzene	<8.7		100	8.7	ug/Kg		01/03/14 19:00	01/08/14 18:40	50
2,2-Dichloropropane	<16		50	16	ug/Kg		01/03/14 19:00	01/08/14 18:40	50
2-Chlorotoluene	<10		50	10	ug/Kg		01/03/14 19:00	01/08/14 18:40	50
4-Chlorotoluene	<9.9		50	9.9	ug/Kg		01/03/14 19:00	01/08/14 18:40	50
Benzene	<3.7		13	3.7	ug/Kg		01/03/14 19:00	01/08/14 18:40	50
Bromobenzene	<21		100	21	ug/Kg		01/03/14 19:00	01/08/14 18:40	50
Bromochloromethane	<19		100	19	ug/Kg		01/03/14 19:00	01/08/14 18:40	50
Bromodichloromethane	<17		100	17	ug/Kg		01/03/14 19:00	01/08/14 18:40	50
Bromoform	<22		100	22	ug/Kg		01/03/14 19:00	01/08/14 18:40	50
Bromomethane	<34		100	34	ug/Kg		01/03/14 19:00	01/08/14 18:40	50
Carbon tetrachloride	<13		50	13	ug/Kg		01/03/14 19:00	01/08/14 18:40	50
Chlorobenzene	<7.2		50	7.2	ug/Kg		01/03/14 19:00	01/08/14 18:40	50
Chloroethane	<22		100	22	ug/Kg		01/03/14 19:00	01/08/14 18:40	50
Chloroform	<10		50	10	ug/Kg		01/03/14 19:00	01/08/14 18:40	50
Chloromethane	<23		100	23	ug/Kg		01/03/14 19:00	01/08/14 18:40	50
cis-1,2-Dichloroethene	<6.2		50	6.2	ug/Kg		01/03/14 19:00	01/08/14 18:40	50
cis-1,3-Dichloropropene	<8.9		50	8.9	ug/Kg		01/03/14 19:00	01/08/14 18:40	50
Dibromochloromethane	<17		100	17	ug/Kg		01/03/14 19:00	01/08/14 18:40	50
Dibromomethane	<24		100	24	ug/Kg		01/03/14 19:00	01/08/14 18:40	50
Dichlorodifluoromethane	<26		100	26	ug/Kg		01/03/14 19:00	01/08/14 18:40	50
Ethylbenzene	<6.3		13	6.3	ug/Kg		01/03/14 19:00	01/08/14 18:40	50
Hexachlorobutadiene	<17		100	17	ug/Kg		01/03/14 19:00	01/08/14 18:40	50
Isopropyl ether	<7.4		100	7.4	ug/Kg		01/03/14 19:00	01/08/14 18:40	50
Isopropylbenzene	<13		100	13	ug/Kg		01/03/14 19:00	01/08/14 18:40	50
Methyl tert-butyl ether	<22		100	22	ug/Kg		01/03/14 19:00	01/08/14 18:40	50
Methylene Chloride	<34		250	34	ug/Kg		01/03/14 19:00	01/08/14 18:40	50
Naphthalene	<25		100	25	ug/Kg		01/03/14 19:00	01/08/14 18:40	50
n-Butylbenzene	<6.5		50	6.5	ug/Kg		01/03/14 19:00	01/08/14 18:40	50
N-Propylbenzene	<8.8		100	8.8	ug/Kg		01/03/14 19:00	01/08/14 18:40	50
p-Isopropyltoluene	<9.3		100	9.3	ug/Kg		01/03/14 19:00	01/08/14 18:40	50
sec-Butylbenzene	<7.7		50	7.7	ug/Kg		01/03/14 19:00	01/08/14 18:40	50
Styrene	<4.9		50	4.9	ug/Kg		01/03/14 19:00	01/08/14 18:40	50
tert-Butylbenzene	<6.8		50	6.8	ug/Kg		01/03/14 19:00	01/08/14 18:40	50
Tetrachloroethene	<8.4		50	8.4	ug/Kg		01/03/14 19:00	01/08/14 18:40	50

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LB3 500-218770/14-A
Matrix: Solid
Analysis Batch: 218983

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 218770

Analyte	LB3 Result	LB3 Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	<5.8		13	5.8	ug/Kg		01/03/14 19:00	01/08/14 18:40	50
trans-1,2-Dichloroethene	<13		50	13	ug/Kg		01/03/14 19:00	01/08/14 18:40	50
trans-1,3-Dichloropropene	<10		50	10	ug/Kg		01/03/14 19:00	01/08/14 18:40	50
Trichloroethene	<9.3		25	9.3	ug/Kg		01/03/14 19:00	01/08/14 18:40	50
Trichlorofluoromethane	<21		100	21	ug/Kg		01/03/14 19:00	01/08/14 18:40	50
Vinyl chloride	<5.2		13	5.2	ug/Kg		01/03/14 19:00	01/08/14 18:40	50
Xylenes, Total	<3.4		25	3.4	ug/Kg		01/03/14 19:00	01/08/14 18:40	50

Surrogate	*LB3 %Recovery*	*LB3 Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*75 - 125*	*01/03/14 19:00*	*01/08/14 18:40*	*50*
4-Bromofluorobenzene (Surr)	*95*		*75 - 120*	*01/03/14 19:00*	*01/08/14 18:40*	*50*
Dibromofluoromethane	*101*		*75 - 120*	*01/03/14 19:00*	*01/08/14 18:40*	*50*
Toluene-d8 (Surr)	*106*		*75 - 120*	*01/03/14 19:00*	*01/08/14 18:40*	*50*

Lab Sample ID: LCS 500-218770/15-A
Matrix: Solid
Analysis Batch: 218983

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 218770

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	2500	2490		ug/Kg		99	75 - 120
1,1,1-Trichloroethane	2500	2330		ug/Kg		93	70 - 123
1,1,2,2-Tetrachloroethane	2500	2060		ug/Kg		83	70 - 128
1,1,2-Trichloroethane	2500	2260		ug/Kg		90	69 - 120
1,1-Dichloroethane	2500	2300		ug/Kg		92	68 - 121
1,1-Dichloroethene	2500	2160		ug/Kg		86	58 - 122
1,1-Dichloropropene	2500	2300		ug/Kg		92	70 - 120
1,2,3-Trichlorobenzene	2500	2150		ug/Kg		86	56 - 137
1,2,3-Trichloropropane	2500	1940		ug/Kg		78	70 - 120
1,2,4-Trichlorobenzene	2500	2170		ug/Kg		87	65 - 121
1,2,4-Trimethylbenzene	2500	2480		ug/Kg		99	75 - 121
1,2-Dibromo-3-Chloropropane	2500	1920		ug/Kg		77	60 - 121
1,2-Dibromoethane	2500	2260		ug/Kg		90	70 - 120
1,2-Dichlorobenzene	2500	2280		ug/Kg		91	75 - 120
1,2-Dichloroethane	2500	2230		ug/Kg		89	69 - 120
1,2-Dichloropropane	2500	2370		ug/Kg		95	70 - 120
1,3,5-Trimethylbenzene	2500	2450		ug/Kg		98	75 - 123
1,3-Dichlorobenzene	2500	2280		ug/Kg		91	70 - 120
1,3-Dichloropropane	2500	2280		ug/Kg		91	70 - 120
1,4-Dichlorobenzene	2500	2260		ug/Kg		90	75 - 120
2,2-Dichloropropane	2500	2290		ug/Kg		92	67 - 125
2-Chlorotoluene	2500	2370		ug/Kg		95	70 - 120
4-Chlorotoluene	2500	2400		ug/Kg		96	70 - 120
Benzene	2500	2340		ug/Kg		94	70 - 120
Bromobenzene	2500	2320		ug/Kg		93	70 - 120
Bromochloromethane	2500	2370		ug/Kg		95	67 - 122
Bromodichloromethane	2500	2360		ug/Kg		94	70 - 120
Bromoform	2500	2170		ug/Kg		87	70 - 125
Bromomethane	2500	1940		ug/Kg		78	50 - 150

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-218770/15-A
Matrix: Solid
Analysis Batch: 218983

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 218770

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Carbon tetrachloride	2500	2440		ug/Kg		98	70 - 125
Chlorobenzene	2500	2390		ug/Kg		95	70 - 120
Chloroethane	2500	2060		ug/Kg		82	50 - 150
Chloroform	2500	2250		ug/Kg		90	70 - 120
Chloromethane	2500	1420		ug/Kg		57	50 - 134
cis-1,2-Dichloroethene	2500	2420		ug/Kg		97	70 - 120
cis-1,3-Dichloropropene	2500	2360		ug/Kg		94	70 - 120
Dibromochloromethane	2500	2320		ug/Kg		93	70 - 120
Dibromomethane	2500	2200		ug/Kg		88	70 - 120
Dichlorodifluoromethane	2500	939	*	ug/Kg		38	40 - 140
Ethylbenzene	2500	2530		ug/Kg		101	75 - 120
Hexachlorobutadiene	2500	2330		ug/Kg		93	65 - 135
Isopropylbenzene	2500	2420		ug/Kg		97	70 - 120
Methyl tert-butyl ether	2500	2210		ug/Kg		88	58 - 122
Methylene Chloride	2500	2130		ug/Kg		85	65 - 125
Naphthalene	2500	2040		ug/Kg		82	55 - 132
n-Butylbenzene	2500	2310		ug/Kg		92	75 - 120
N-Propylbenzene	2500	2370		ug/Kg		95	70 - 120
p-Isopropyltoluene	2500	2460		ug/Kg		98	70 - 120
sec-Butylbenzene	2500	2400		ug/Kg		96	70 - 120
Styrene	2500	2530		ug/Kg		101	75 - 120
tert-Butylbenzene	2500	2460		ug/Kg		98	70 - 120
Tetrachloroethene	2500	2410		ug/Kg		96	70 - 123
Toluene	2500	2490		ug/Kg		99	70 - 120
trans-1,2-Dichloroethene	2500	2270		ug/Kg		91	70 - 124
trans-1,3-Dichloropropene	2500	2270		ug/Kg		91	70 - 120
Trichloroethene	2500	2430		ug/Kg		97	70 - 120
Trichlorofluoromethane	2500	1980		ug/Kg		79	63 - 134
Vinyl chloride	2500	1660		ug/Kg		66	62 - 138
Xylenes, Total	5000	4990		ug/Kg		100	70 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*97*		*75 - 125*
4-Bromofluorobenzene (Surr)	*104*		*75 - 120*
Dibromofluoromethane	*99*		*75 - 120*
Toluene-d8 (Surr)	*106*		*75 - 120*

Lab Sample ID: MB 500-218825/6
Matrix: Solid
Analysis Batch: 218825

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.35		2.0	0.35	ug/Kg			01/07/14 10:44	1
1,1,1-Trichloroethane	<0.20		1.0	0.20	ug/Kg			01/07/14 10:44	1
1,1,2,2-Tetrachloroethane	<0.23		1.0	0.23	ug/Kg			01/07/14 10:44	1
1,1,2-Trichloroethane	<0.28		1.0	0.28	ug/Kg			01/07/14 10:44	1
1,1-Dichloroethane	<0.19		1.0	0.19	ug/Kg			01/07/14 10:44	1
1,1-Dichloroethene	<0.31		1.0	0.31	ug/Kg			01/07/14 10:44	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-218825/6
Matrix: Solid
Analysis Batch: 218825

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloropropene	<0.34		1.0	0.34	ug/Kg			01/07/14 10:44	1
1,2,3-Trichlorobenzene	<0.35		2.0	0.35	ug/Kg			01/07/14 10:44	1
1,2,3-Trichloropropane	<0.57		2.0	0.57	ug/Kg			01/07/14 10:44	1
1,2,4-Trichlorobenzene	<0.38		2.0	0.38	ug/Kg			01/07/14 10:44	1
1,2,4-Trimethylbenzene	<0.21		2.0	0.21	ug/Kg			01/07/14 10:44	1
1,2-Dibromo-3-Chloropropane	<0.87		2.0	0.87	ug/Kg			01/07/14 10:44	1
1,2-Dibromoethane	<0.31		2.0	0.31	ug/Kg			01/07/14 10:44	1
1,2-Dichlorobenzene	<0.21		2.0	0.21	ug/Kg			01/07/14 10:44	1
1,2-Dichloroethane	<0.29		1.0	0.29	ug/Kg			01/07/14 10:44	1
1,2-Dichloropropane	<0.20		1.0	0.20	ug/Kg			01/07/14 10:44	1
1,3,5-Trimethylbenzene	<0.21		2.0	0.21	ug/Kg			01/07/14 10:44	1
1,3-Dichlorobenzene	<0.26		2.0	0.26	ug/Kg			01/07/14 10:44	1
1,3-Dichloropropane	<0.13		1.0	0.13	ug/Kg			01/07/14 10:44	1
1,4-Dichlorobenzene	<0.17		2.0	0.17	ug/Kg			01/07/14 10:44	1
2,2-Dichloropropane	<0.32		1.0	0.32	ug/Kg			01/07/14 10:44	1
2-Chlorotoluene	<0.21		1.0	0.21	ug/Kg			01/07/14 10:44	1
4-Chlorotoluene	<0.20		1.0	0.20	ug/Kg			01/07/14 10:44	1
Benzene	<0.074		0.25	0.074	ug/Kg			01/07/14 10:44	1
Bromobenzene	<0.43		2.0	0.43	ug/Kg			01/07/14 10:44	1
Bromochloromethane	<0.38		2.0	0.38	ug/Kg			01/07/14 10:44	1
Bromodichloromethane	<0.34		2.0	0.34	ug/Kg			01/07/14 10:44	1
Bromoform	<0.44		2.0	0.44	ug/Kg			01/07/14 10:44	1
Bromomethane	<0.68		2.0	0.68	ug/Kg			01/07/14 10:44	1
Carbon tetrachloride	<0.26		1.0	0.26	ug/Kg			01/07/14 10:44	1
Chlorobenzene	<0.14		1.0	0.14	ug/Kg			01/07/14 10:44	1
Chloroethane	<0.44		2.0	0.44	ug/Kg			01/07/14 10:44	1
Chloroform	<0.21		1.0	0.21	ug/Kg			01/07/14 10:44	1
Chloromethane	<0.46		2.0	0.46	ug/Kg			01/07/14 10:44	1
cis-1,2-Dichloroethene	<0.12		1.0	0.12	ug/Kg			01/07/14 10:44	1
cis-1,3-Dichloropropene	<0.18		1.0	0.18	ug/Kg			01/07/14 10:44	1
Dibromochloromethane	<0.35		2.0	0.35	ug/Kg			01/07/14 10:44	1
Dibromomethane	<0.48		2.0	0.48	ug/Kg			01/07/14 10:44	1
Dichlorodifluoromethane	<0.51		2.0	0.51	ug/Kg			01/07/14 10:44	1
Ethylbenzene	<0.13		0.25	0.13	ug/Kg			01/07/14 10:44	1
Hexachlorobutadiene	<0.35		2.0	0.35	ug/Kg			01/07/14 10:44	1
Isopropyl ether	<0.15		2.0	0.15	ug/Kg			01/07/14 10:44	1
Isopropylbenzene	<0.25		2.0	0.25	ug/Kg			01/07/14 10:44	1
Methyl tert-butyl ether	<0.43		2.0	0.43	ug/Kg			01/07/14 10:44	1
Methylene Chloride	<0.68		5.0	0.68	ug/Kg			01/07/14 10:44	1
Naphthalene	<0.49		2.0	0.49	ug/Kg			01/07/14 10:44	1
n-Butylbenzene	<0.13		1.0	0.13	ug/Kg			01/07/14 10:44	1
N-Propylbenzene	<0.18		2.0	0.18	ug/Kg			01/07/14 10:44	1
p-Isopropyltoluene	<0.19		2.0	0.19	ug/Kg			01/07/14 10:44	1
sec-Butylbenzene	<0.15		1.0	0.15	ug/Kg			01/07/14 10:44	1
Styrene	<0.099		1.0	0.099	ug/Kg			01/07/14 10:44	1
tert-Butylbenzene	<0.14		1.0	0.14	ug/Kg			01/07/14 10:44	1
Tetrachloroethene	<0.17		1.0	0.17	ug/Kg			01/07/14 10:44	1
Toluene	<0.12		0.25	0.12	ug/Kg			01/07/14 10:44	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-218825/6
Matrix: Solid
Analysis Batch: 218825

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	<0.25		1.0	0.25	ug/Kg			01/07/14 10:44	1
trans-1,3-Dichloropropene	<0.21		1.0	0.21	ug/Kg			01/07/14 10:44	1
Trichloroethene	<0.19		0.50	0.19	ug/Kg			01/07/14 10:44	1
Trichlorofluoromethane	<0.42		2.0	0.42	ug/Kg			01/07/14 10:44	1
Vinyl chloride	<0.10		0.25	0.10	ug/Kg			01/07/14 10:44	1
Xylenes, Total	<0.068		0.50	0.068	ug/Kg			01/07/14 10:44	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*95*		*75 - 125*		*01/07/14 10:44*	*1*
4-Bromofluorobenzene (Surr)	*96*		*75 - 120*		*01/07/14 10:44*	*1*
Dibromofluoromethane	*101*		*75 - 120*		*01/07/14 10:44*	*1*
Toluene-d8 (Surr)	*106*		*75 - 120*		*01/07/14 10:44*	*1*

Lab Sample ID: LCS 500-218825/4
Matrix: Solid
Analysis Batch: 218825

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	50.0	50.2		ug/Kg		100	75 - 120
1,1,1-Trichloroethane	50.0	48.4		ug/Kg		97	70 - 123
1,1,2,2-Tetrachloroethane	50.0	41.1		ug/Kg		82	70 - 128
1,1,2-Trichloroethane	50.0	45.1		ug/Kg		90	69 - 120
1,1-Dichloroethane	50.0	46.9		ug/Kg		94	68 - 121
1,1-Dichloroethene	50.0	44.9		ug/Kg		90	58 - 122
1,1-Dichloropropene	50.0	49.0		ug/Kg		98	70 - 120
1,2,3-Trichlorobenzene	50.0	42.9		ug/Kg		86	56 - 137
1,2,3-Trichloropropane	50.0	40.6		ug/Kg		81	70 - 120
1,2,4-Trichlorobenzene	50.0	46.1		ug/Kg		92	65 - 121
1,2,4-Trimethylbenzene	50.0	52.6		ug/Kg		105	75 - 121
1,2-Dibromo-3-Chloropropane	50.0	38.5		ug/Kg		77	60 - 121
1,2-Dibromoethane	50.0	44.2		ug/Kg		88	70 - 120
1,2-Dichlorobenzene	50.0	46.8		ug/Kg		94	75 - 120
1,2-Dichloroethane	50.0	42.8		ug/Kg		86	69 - 120
1,2-Dichloropropane	50.0	48.5		ug/Kg		97	70 - 120
1,3,5-Trimethylbenzene	50.0	52.7		ug/Kg		105	75 - 123
1,3-Dichlorobenzene	50.0	48.6		ug/Kg		97	70 - 120
1,3-Dichloropropane	50.0	45.5		ug/Kg		91	70 - 120
1,4-Dichlorobenzene	50.0	47.6		ug/Kg		95	75 - 120
2,2-Dichloropropane	50.0	49.7		ug/Kg		99	67 - 125
2-Chlorotoluene	50.0	50.2		ug/Kg		100	70 - 120
4-Chlorotoluene	50.0	50.9		ug/Kg		102	70 - 120
Benzene	50.0	47.8		ug/Kg		96	70 - 120
Bromobenzene	50.0	48.1		ug/Kg		96	70 - 120
Bromochloromethane	50.0	46.5		ug/Kg		93	67 - 122
Bromodichloromethane	50.0	47.2		ug/Kg		94	70 - 120
Bromoform	50.0	43.4		ug/Kg		87	70 - 125
Bromomethane	50.0	48.1		ug/Kg		96	50 - 150
Carbon tetrachloride	50.0	51.5		ug/Kg		103	70 - 125

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-218825/4
Matrix: Solid
Analysis Batch: 218825

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chlorobenzene	50.0	49.3		ug/Kg		99	70 - 120
Chloroethane	50.0	54.1		ug/Kg		108	50 - 150
Chloroform	50.0	45.5		ug/Kg		91	70 - 120
Chloromethane	50.0	42.4		ug/Kg		85	50 - 134
cis-1,2-Dichloroethene	50.0	48.8		ug/Kg		98	70 - 120
cis-1,3-Dichloropropene	50.0	48.1		ug/Kg		96	70 - 120
Dibromochloromethane	50.0	46.1		ug/Kg		92	70 - 120
Dibromomethane	50.0	43.2		ug/Kg		86	70 - 120
Dichlorodifluoromethane	50.0	41.5		ug/Kg		83	40 - 140
Ethylbenzene	50.0	53.2		ug/Kg		106	75 - 120
Hexachlorobutadiene	50.0	50.2		ug/Kg		100	65 - 135
Isopropylbenzene	50.0	52.1		ug/Kg		104	70 - 120
Methyl tert-butyl ether	50.0	41.0		ug/Kg		82	58 - 122
Methylene Chloride	50.0	44.0		ug/Kg		88	65 - 125
Naphthalene	50.0	39.9		ug/Kg		80	55 - 132
n-Butylbenzene	50.0	51.4		ug/Kg		103	75 - 120
N-Propylbenzene	50.0	51.8		ug/Kg		104	70 - 120
p-Isopropyltoluene	50.0	53.2		ug/Kg		106	70 - 120
sec-Butylbenzene	50.0	52.1		ug/Kg		104	70 - 120
Styrene	50.0	52.4		ug/Kg		105	75 - 120
tert-Butylbenzene	50.0	52.3		ug/Kg		105	70 - 120
Tetrachloroethene	50.0	51.2		ug/Kg		102	70 - 123
Toluene	50.0	51.9		ug/Kg		104	70 - 120
trans-1,2-Dichloroethene	50.0	47.0		ug/Kg		94	70 - 124
trans-1,3-Dichloropropene	50.0	47.0		ug/Kg		94	70 - 120
Trichloroethene	50.0	50.4		ug/Kg		101	70 - 120
Trichlorofluoromethane	50.0	49.0		ug/Kg		98	63 - 134
Vinyl chloride	50.0	46.7		ug/Kg		93	62 - 138
Xylenes, Total	100	104		ug/Kg		104	70 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*92*		*75 - 125*
4-Bromofluorobenzene (Surr)	*102*		*75 - 120*
Dibromofluoromethane	*96*		*75 - 120*
Toluene-d8 (Surr)	*107*		*75 - 120*

Lab Sample ID: MB 500-218983/6
Matrix: Solid
Analysis Batch: 218983

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.35		2.0	0.35	ug/Kg			01/08/14 10:04	1
1,1,1-Trichloroethane	<0.20		1.0	0.20	ug/Kg			01/08/14 10:04	1
1,1,2,2-Tetrachloroethane	<0.23		1.0	0.23	ug/Kg			01/08/14 10:04	1
1,1,2-Trichloroethane	<0.28		1.0	0.28	ug/Kg			01/08/14 10:04	1
1,1-Dichloroethane	<0.19		1.0	0.19	ug/Kg			01/08/14 10:04	1
1,1-Dichloroethene	<0.31		1.0	0.31	ug/Kg			01/08/14 10:04	1
1,1-Dichloropropene	<0.34		1.0	0.34	ug/Kg			01/08/14 10:04	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-218983/6
Matrix: Solid
Analysis Batch: 218983

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichlorobenzene	<0.35		2.0	0.35	ug/Kg			01/08/14 10:04	1
1,2,3-Trichloropropane	<0.57		2.0	0.57	ug/Kg			01/08/14 10:04	1
1,2,4-Trichlorobenzene	<0.38		2.0	0.38	ug/Kg			01/08/14 10:04	1
1,2,4-Trimethylbenzene	<0.21		2.0	0.21	ug/Kg			01/08/14 10:04	1
1,2-Dibromo-3-Chloropropane	<0.87		2.0	0.87	ug/Kg			01/08/14 10:04	1
1,2-Dibromoethane	<0.31		2.0	0.31	ug/Kg			01/08/14 10:04	1
1,2-Dichlorobenzene	<0.21		2.0	0.21	ug/Kg			01/08/14 10:04	1
1,2-Dichloroethane	<0.29		1.0	0.29	ug/Kg			01/08/14 10:04	1
1,2-Dichloropropane	<0.20		1.0	0.20	ug/Kg			01/08/14 10:04	1
1,3,5-Trimethylbenzene	<0.21		2.0	0.21	ug/Kg			01/08/14 10:04	1
1,3-Dichlorobenzene	<0.26		2.0	0.26	ug/Kg			01/08/14 10:04	1
1,3-Dichloropropane	<0.13		1.0	0.13	ug/Kg			01/08/14 10:04	1
1,4-Dichlorobenzene	<0.17		2.0	0.17	ug/Kg			01/08/14 10:04	1
2,2-Dichloropropane	<0.32		1.0	0.32	ug/Kg			01/08/14 10:04	1
2-Chlorotoluene	<0.21		1.0	0.21	ug/Kg			01/08/14 10:04	1
4-Chlorotoluene	<0.20		1.0	0.20	ug/Kg			01/08/14 10:04	1
Benzene	<0.074		0.25	0.074	ug/Kg			01/08/14 10:04	1
Bromobenzene	<0.43		2.0	0.43	ug/Kg			01/08/14 10:04	1
Bromochloromethane	<0.38		2.0	0.38	ug/Kg			01/08/14 10:04	1
Bromodichloromethane	<0.34		2.0	0.34	ug/Kg			01/08/14 10:04	1
Bromoform	<0.44		2.0	0.44	ug/Kg			01/08/14 10:04	1
Bromomethane	<0.68		2.0	0.68	ug/Kg			01/08/14 10:04	1
Carbon tetrachloride	<0.26		1.0	0.26	ug/Kg			01/08/14 10:04	1
Chlorobenzene	<0.14		1.0	0.14	ug/Kg			01/08/14 10:04	1
Chloroethane	<0.44		2.0	0.44	ug/Kg			01/08/14 10:04	1
Chloroform	<0.21		1.0	0.21	ug/Kg			01/08/14 10:04	1
Chloromethane	<0.46		2.0	0.46	ug/Kg			01/08/14 10:04	1
cis-1,2-Dichloroethene	<0.12		1.0	0.12	ug/Kg			01/08/14 10:04	1
cis-1,3-Dichloropropene	<0.18		1.0	0.18	ug/Kg			01/08/14 10:04	1
Dibromochloromethane	<0.35		2.0	0.35	ug/Kg			01/08/14 10:04	1
Dibromomethane	<0.48		2.0	0.48	ug/Kg			01/08/14 10:04	1
Dichlorodifluoromethane	<0.51		2.0	0.51	ug/Kg			01/08/14 10:04	1
Ethylbenzene	<0.13		0.25	0.13	ug/Kg			01/08/14 10:04	1
Hexachlorobutadiene	<0.35		2.0	0.35	ug/Kg			01/08/14 10:04	1
Isopropyl ether	<0.15		2.0	0.15	ug/Kg			01/08/14 10:04	1
Isopropylbenzene	<0.25		2.0	0.25	ug/Kg			01/08/14 10:04	1
Methyl tert-butyl ether	<0.43		2.0	0.43	ug/Kg			01/08/14 10:04	1
Methylene Chloride	<0.68		5.0	0.68	ug/Kg			01/08/14 10:04	1
Naphthalene	<0.49		2.0	0.49	ug/Kg			01/08/14 10:04	1
n-Butylbenzene	<0.13		1.0	0.13	ug/Kg			01/08/14 10:04	1
N-Propylbenzene	<0.18		2.0	0.18	ug/Kg			01/08/14 10:04	1
p-Isopropyltoluene	<0.19		2.0	0.19	ug/Kg			01/08/14 10:04	1
sec-Butylbenzene	<0.15		1.0	0.15	ug/Kg			01/08/14 10:04	1
Styrene	<0.099		1.0	0.099	ug/Kg			01/08/14 10:04	1
tert-Butylbenzene	<0.14		1.0	0.14	ug/Kg			01/08/14 10:04	1
Tetrachloroethene	<0.17		1.0	0.17	ug/Kg			01/08/14 10:04	1
Toluene	<0.12		0.25	0.12	ug/Kg			01/08/14 10:04	1
trans-1,2-Dichloroethene	<0.25		1.0	0.25	ug/Kg			01/08/14 10:04	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-218983/6
Matrix: Solid
Analysis Batch: 218983

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,3-Dichloropropene	<0.21		1.0	0.21	ug/Kg			01/08/14 10:04	1
Trichloroethene	<0.19		0.50	0.19	ug/Kg			01/08/14 10:04	1
Trichlorofluoromethane	<0.42		2.0	0.42	ug/Kg			01/08/14 10:04	1
Vinyl chloride	<0.10		0.25	0.10	ug/Kg			01/08/14 10:04	1
Xylenes, Total	<0.068		0.50	0.068	ug/Kg			01/08/14 10:04	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*99*		*75 - 125*		*01/08/14 10:04*	*1*
4-Bromofluorobenzene (Surr)	*95*		*75 - 120*		*01/08/14 10:04*	*1*
Dibromofluoromethane	*101*		*75 - 120*		*01/08/14 10:04*	*1*
Toluene-d8 (Surr)	*107*		*75 - 120*		*01/08/14 10:04*	*1*

Lab Sample ID: LCS 500-218983/4
Matrix: Solid
Analysis Batch: 218983

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	50.0	47.8		ug/Kg		96	75 - 120
1,1,1-Trichloroethane	50.0	46.4		ug/Kg		93	70 - 123
1,1,2,2-Tetrachloroethane	50.0	38.9		ug/Kg		78	70 - 128
1,1,2-Trichloroethane	50.0	43.5		ug/Kg		87	69 - 120
1,1-Dichloroethane	50.0	44.9		ug/Kg		90	68 - 121
1,1-Dichloroethene	50.0	41.6		ug/Kg		83	58 - 122
1,1-Dichloropropene	50.0	46.4		ug/Kg		93	70 - 120
1,2,3-Trichlorobenzene	50.0	41.5		ug/Kg		83	56 - 137
1,2,3-Trichloropropane	50.0	40.1		ug/Kg		80	70 - 120
1,2,4-Trichlorobenzene	50.0	44.0		ug/Kg		88	65 - 121
1,2,4-Trimethylbenzene	50.0	49.2		ug/Kg		98	75 - 121
1,2-Dibromo-3-Chloropropane	50.0	35.2		ug/Kg		70	60 - 121
1,2-Dibromoethane	50.0	42.8		ug/Kg		86	70 - 120
1,2-Dichlorobenzene	50.0	44.5		ug/Kg		89	75 - 120
1,2-Dichloroethane	50.0	42.3		ug/Kg		85	69 - 120
1,2-Dichloropropane	50.0	45.8		ug/Kg		92	70 - 120
1,3,5-Trimethylbenzene	50.0	48.4		ug/Kg		97	75 - 123
1,3-Dichlorobenzene	50.0	45.5		ug/Kg		91	70 - 120
1,3-Dichloropropane	50.0	43.2		ug/Kg		86	70 - 120
1,4-Dichlorobenzene	50.0	44.5		ug/Kg		89	75 - 120
2,2-Dichloropropane	50.0	46.9		ug/Kg		94	67 - 125
2-Chlorotoluene	50.0	46.5		ug/Kg		93	70 - 120
4-Chlorotoluene	50.0	47.2		ug/Kg		94	70 - 120
Benzene	50.0	45.5		ug/Kg		91	70 - 120
Bromobenzene	50.0	44.8		ug/Kg		90	70 - 120
Bromochloromethane	50.0	45.4		ug/Kg		91	67 - 122
Bromodichloromethane	50.0	45.7		ug/Kg		91	70 - 120
Bromoform	50.0	41.8		ug/Kg		84	70 - 125
Bromomethane	50.0	48.3		ug/Kg		97	50 - 150
Carbon tetrachloride	50.0	48.8		ug/Kg		98	70 - 125
Chlorobenzene	50.0	47.0		ug/Kg		94	70 - 120

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-218983/4
Matrix: Solid
Analysis Batch: 218983

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloroethane	50.0	54.1		ug/Kg		108	50 - 150
Chloroform	50.0	43.3		ug/Kg		87	70 - 120
Chloromethane	50.0	41.2		ug/Kg		82	50 - 134
cis-1,2-Dichloroethene	50.0	45.7		ug/Kg		91	70 - 120
cis-1,3-Dichloropropene	50.0	46.7		ug/Kg		93	70 - 120
Dibromochloromethane	50.0	44.9		ug/Kg		90	70 - 120
Dibromomethane	50.0	42.7		ug/Kg		85	70 - 120
Dichlorodifluoromethane	50.0	40.3		ug/Kg		81	40 - 140
Ethylbenzene	50.0	49.8		ug/Kg		100	75 - 120
Hexachlorobutadiene	50.0	46.2		ug/Kg		92	65 - 135
Isopropylbenzene	50.0	47.5		ug/Kg		95	70 - 120
Methyl tert-butyl ether	50.0	40.4		ug/Kg		81	58 - 122
Methylene Chloride	50.0	42.1		ug/Kg		84	65 - 125
Naphthalene	50.0	38.9		ug/Kg		78	55 - 132
n-Butylbenzene	50.0	47.4		ug/Kg		95	75 - 120
N-Propylbenzene	50.0	47.3		ug/Kg		95	70 - 120
p-Isopropyltoluene	50.0	48.8		ug/Kg		98	70 - 120
sec-Butylbenzene	50.0	48.0		ug/Kg		96	70 - 120
Styrene	50.0	50.1		ug/Kg		100	75 - 120
tert-Butylbenzene	50.0	48.6		ug/Kg		97	70 - 120
Tetrachloroethene	50.0	47.9		ug/Kg		96	70 - 123
Toluene	50.0	49.3		ug/Kg		99	70 - 120
trans-1,2-Dichloroethene	50.0	44.3		ug/Kg		89	70 - 124
trans-1,3-Dichloropropene	50.0	44.4		ug/Kg		89	70 - 120
Trichloroethene	50.0	48.0		ug/Kg		96	70 - 120
Trichlorofluoromethane	50.0	47.0		ug/Kg		94	63 - 134
Vinyl chloride	50.0	45.8		ug/Kg		92	62 - 138
Xylenes, Total	100	97.9		ug/Kg		98	70 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*96*		*75 - 125*
4-Bromofluorobenzene (Surr)	*104*		*75 - 120*
Dibromofluoromethane	*99*		*75 - 120*
Toluene-d8 (Surr)	*108*		*75 - 120*

Lab Sample ID: MB 500-219128/6
Matrix: Solid
Analysis Batch: 219128

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.35		2.0	0.35	ug/Kg			01/09/14 10:37	1
1,1,1-Trichloroethane	<0.20		1.0	0.20	ug/Kg			01/09/14 10:37	1
1,1,2,2-Tetrachloroethane	<0.23		1.0	0.23	ug/Kg			01/09/14 10:37	1
1,1,2-Trichloroethane	<0.28		1.0	0.28	ug/Kg			01/09/14 10:37	1
1,1-Dichloroethane	<0.19		1.0	0.19	ug/Kg			01/09/14 10:37	1
1,1-Dichloroethene	<0.31		1.0	0.31	ug/Kg			01/09/14 10:37	1
1,1-Dichloropropene	<0.34		1.0	0.34	ug/Kg			01/09/14 10:37	1
1,2,3-Trichlorobenzene	<0.35		2.0	0.35	ug/Kg			01/09/14 10:37	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-219128/6
Matrix: Solid
Analysis Batch: 219128

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	<0.57		2.0	0.57	ug/Kg			01/09/14 10:37	1
1,2,4-Trichlorobenzene	<0.38		2.0	0.38	ug/Kg			01/09/14 10:37	1
1,2,4-Trimethylbenzene	<0.21		2.0	0.21	ug/Kg			01/09/14 10:37	1
1,2-Dibromo-3-Chloropropane	<0.87		2.0	0.87	ug/Kg			01/09/14 10:37	1
1,2-Dibromoethane	<0.31		2.0	0.31	ug/Kg			01/09/14 10:37	1
1,2-Dichlorobenzene	<0.21		2.0	0.21	ug/Kg			01/09/14 10:37	1
1,2-Dichloroethane	<0.29		1.0	0.29	ug/Kg			01/09/14 10:37	1
1,2-Dichloropropane	<0.20		1.0	0.20	ug/Kg			01/09/14 10:37	1
1,3,5-Trimethylbenzene	<0.21		2.0	0.21	ug/Kg			01/09/14 10:37	1
1,3-Dichlorobenzene	<0.26		2.0	0.26	ug/Kg			01/09/14 10:37	1
1,3-Dichloropropane	<0.13		1.0	0.13	ug/Kg			01/09/14 10:37	1
1,4-Dichlorobenzene	<0.17		2.0	0.17	ug/Kg			01/09/14 10:37	1
2,2-Dichloropropane	<0.32		1.0	0.32	ug/Kg			01/09/14 10:37	1
2-Chlorotoluene	<0.21		1.0	0.21	ug/Kg			01/09/14 10:37	1
4-Chlorotoluene	<0.20		1.0	0.20	ug/Kg			01/09/14 10:37	1
Benzene	<0.074		0.25	0.074	ug/Kg			01/09/14 10:37	1
Bromobenzene	<0.43		2.0	0.43	ug/Kg			01/09/14 10:37	1
Bromochloromethane	<0.38		2.0	0.38	ug/Kg			01/09/14 10:37	1
Bromodichloromethane	<0.34		2.0	0.34	ug/Kg			01/09/14 10:37	1
Bromoform	<0.44		2.0	0.44	ug/Kg			01/09/14 10:37	1
Bromomethane	<0.68		2.0	0.68	ug/Kg			01/09/14 10:37	1
Carbon tetrachloride	<0.26		1.0	0.26	ug/Kg			01/09/14 10:37	1
Chlorobenzene	<0.14		1.0	0.14	ug/Kg			01/09/14 10:37	1
Chloroethane	<0.44		2.0	0.44	ug/Kg			01/09/14 10:37	1
Chloroform	<0.21		1.0	0.21	ug/Kg			01/09/14 10:37	1
Chloromethane	<0.46		2.0	0.46	ug/Kg			01/09/14 10:37	1
cis-1,2-Dichloroethene	<0.12		1.0	0.12	ug/Kg			01/09/14 10:37	1
cis-1,3-Dichloropropene	<0.18		1.0	0.18	ug/Kg			01/09/14 10:37	1
Dibromochloromethane	<0.35		2.0	0.35	ug/Kg			01/09/14 10:37	1
Dibromomethane	<0.48		2.0	0.48	ug/Kg			01/09/14 10:37	1
Dichlorodifluoromethane	<0.51		2.0	0.51	ug/Kg			01/09/14 10:37	1
Ethylbenzene	<0.13		0.25	0.13	ug/Kg			01/09/14 10:37	1
Hexachlorobutadiene	<0.35		2.0	0.35	ug/Kg			01/09/14 10:37	1
Isopropyl ether	<0.15		2.0	0.15	ug/Kg			01/09/14 10:37	1
Isopropylbenzene	<0.25		2.0	0.25	ug/Kg			01/09/14 10:37	1
Methyl tert-butyl ether	<0.43		2.0	0.43	ug/Kg			01/09/14 10:37	1
Methylene Chloride	<0.68		5.0	0.68	ug/Kg			01/09/14 10:37	1
Naphthalene	<0.49		2.0	0.49	ug/Kg			01/09/14 10:37	1
n-Butylbenzene	<0.13		1.0	0.13	ug/Kg			01/09/14 10:37	1
N-Propylbenzene	<0.18		2.0	0.18	ug/Kg			01/09/14 10:37	1
p-Isopropyltoluene	<0.19		2.0	0.19	ug/Kg			01/09/14 10:37	1
sec-Butylbenzene	<0.15		1.0	0.15	ug/Kg			01/09/14 10:37	1
Styrene	<0.099		1.0	0.099	ug/Kg			01/09/14 10:37	1
tert-Butylbenzene	<0.14		1.0	0.14	ug/Kg			01/09/14 10:37	1
Tetrachloroethene	<0.17		1.0	0.17	ug/Kg			01/09/14 10:37	1
Toluene	<0.12		0.25	0.12	ug/Kg			01/09/14 10:37	1
trans-1,2-Dichloroethene	<0.25		1.0	0.25	ug/Kg			01/09/14 10:37	1
trans-1,3-Dichloropropene	<0.21		1.0	0.21	ug/Kg			01/09/14 10:37	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-219128/6
Matrix: Solid
Analysis Batch: 219128

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	<0.19		0.50	0.19	ug/Kg			01/09/14 10:37	1
Trichlorofluoromethane	<0.42		2.0	0.42	ug/Kg			01/09/14 10:37	1
Vinyl chloride	<0.10		0.25	0.10	ug/Kg			01/09/14 10:37	1
Xylenes, Total	<0.068		0.50	0.068	ug/Kg			01/09/14 10:37	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*75 - 125*		*01/09/14 10:37*	*1*
4-Bromofluorobenzene (Surr)	*97*		*75 - 120*		*01/09/14 10:37*	*1*
Dibromofluoromethane	*102*		*75 - 120*		*01/09/14 10:37*	*1*
Toluene-d8 (Surr)	*108*		*75 - 120*		*01/09/14 10:37*	*1*

Lab Sample ID: LCS 500-219128/4
Matrix: Solid
Analysis Batch: 219128

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	50.0	52.4		ug/Kg		105	75 - 120
1,1,1-Trichloroethane	50.0	50.3		ug/Kg		101	70 - 123
1,1,2,2-Tetrachloroethane	50.0	44.2		ug/Kg		88	70 - 128
1,1,2-Trichloroethane	50.0	47.9		ug/Kg		96	69 - 120
1,1-Dichloroethane	50.0	48.1		ug/Kg		96	68 - 121
1,1-Dichloroethene	50.0	48.0		ug/Kg		96	58 - 122
1,1-Dichloropropene	50.0	50.8		ug/Kg		102	70 - 120
1,2,3-Trichlorobenzene	50.0	46.4		ug/Kg		93	56 - 137
1,2,3-Trichloropropane	50.0	45.7		ug/Kg		91	70 - 120
1,2,4-Trichlorobenzene	50.0	48.6		ug/Kg		97	65 - 121
1,2,4-Trimethylbenzene	50.0	53.0		ug/Kg		106	75 - 121
1,2-Dibromo-3-Chloropropane	50.0	40.8		ug/Kg		82	60 - 121
1,2-Dibromoethane	50.0	47.3		ug/Kg		95	70 - 120
1,2-Dichlorobenzene	50.0	47.9		ug/Kg		96	75 - 120
1,2-Dichloroethane	50.0	44.9		ug/Kg		90	69 - 120
1,2-Dichloropropane	50.0	48.5		ug/Kg		97	70 - 120
1,3,5-Trimethylbenzene	50.0	52.8		ug/Kg		106	75 - 123
1,3-Dichlorobenzene	50.0	49.6		ug/Kg		99	70 - 120
1,3-Dichloropropane	50.0	48.2		ug/Kg		96	70 - 120
1,4-Dichlorobenzene	50.0	47.9		ug/Kg		96	75 - 120
2,2-Dichloropropane	50.0	51.2		ug/Kg		102	67 - 125
2-Chlorotoluene	50.0	50.4		ug/Kg		101	70 - 120
4-Chlorotoluene	50.0	51.4		ug/Kg		103	70 - 120
Benzene	50.0	49.1		ug/Kg		98	70 - 120
Bromobenzene	50.0	49.0		ug/Kg		98	70 - 120
Bromochloromethane	50.0	49.1		ug/Kg		98	67 - 122
Bromodichloromethane	50.0	49.9		ug/Kg		100	70 - 120
Bromoform	50.0	47.7		ug/Kg		95	70 - 125
Bromomethane	50.0	49.4		ug/Kg		99	50 - 150
Carbon tetrachloride	50.0	53.7		ug/Kg		107	70 - 125
Chlorobenzene	50.0	51.1		ug/Kg		102	70 - 120
Chloroethane	50.0	54.2		ug/Kg		108	50 - 150

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-219128/4
Matrix: Solid
Analysis Batch: 219128

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloroform	50.0	46.8		ug/Kg		94	70 - 120
Chloromethane	50.0	42.1		ug/Kg		84	50 - 134
cis-1,2-Dichloroethene	50.0	50.7		ug/Kg		101	70 - 120
cis-1,3-Dichloropropene	50.0	51.1		ug/Kg		102	70 - 120
Dibromochloromethane	50.0	50.0		ug/Kg		100	70 - 120
Dibromomethane	50.0	46.4		ug/Kg		93	70 - 120
Dichlorodifluoromethane	50.0	40.0		ug/Kg		80	40 - 140
Ethylbenzene	50.0	54.4		ug/Kg		109	75 - 120
Hexachlorobutadiene	50.0	50.8		ug/Kg		102	65 - 135
Isopropylbenzene	50.0	52.2		ug/Kg		104	70 - 120
Methyl tert-butyl ether	50.0	44.1		ug/Kg		88	58 - 122
Methylene Chloride	50.0	46.6		ug/Kg		93	65 - 125
Naphthalene	50.0	43.5		ug/Kg		87	55 - 132
n-Butylbenzene	50.0	50.9		ug/Kg		102	75 - 120
N-Propylbenzene	50.0	51.5		ug/Kg		103	70 - 120
p-Isopropyltoluene	50.0	53.2		ug/Kg		106	70 - 120
sec-Butylbenzene	50.0	51.9		ug/Kg		104	70 - 120
Styrene	50.0	54.3		ug/Kg		109	75 - 120
tert-Butylbenzene	50.0	52.2		ug/Kg		104	70 - 120
Tetrachloroethene	50.0	52.6		ug/Kg		105	70 - 123
Toluene	50.0	53.0		ug/Kg		106	70 - 120
trans-1,2-Dichloroethene	50.0	49.1		ug/Kg		98	70 - 124
trans-1,3-Dichloropropene	50.0	49.5		ug/Kg		99	70 - 120
Trichloroethene	50.0	52.4		ug/Kg		105	70 - 120
Trichlorofluoromethane	50.0	48.7		ug/Kg		97	63 - 134
Vinyl chloride	50.0	46.8		ug/Kg		94	62 - 138
Xylenes, Total	100	107		ug/Kg		107	70 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*93*		*75 - 125*
4-Bromofluorobenzene (Surr)	*103*		*75 - 120*
Dibromofluoromethane	*97*		*75 - 120*
Toluene-d8 (Surr)	*107*		*75 - 120*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 500-218759/1-A
Matrix: Solid
Analysis Batch: 219007

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 218759

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<5.9		17	5.9	ug/Kg		01/03/14 16:38	01/08/14 15:37	1
PCB-1221	<7.3		17	7.3	ug/Kg		01/03/14 16:38	01/08/14 15:37	1
PCB-1232	<7.3		17	7.3	ug/Kg		01/03/14 16:38	01/08/14 15:37	1
PCB-1242	<5.5		17	5.5	ug/Kg		01/03/14 16:38	01/08/14 15:37	1
PCB-1248	<6.6		17	6.6	ug/Kg		01/03/14 16:38	01/08/14 15:37	1
PCB-1254	<3.6		17	3.6	ug/Kg		01/03/14 16:38	01/08/14 15:37	1
PCB-1260	<8.2		17	8.2	ug/Kg		01/03/14 16:38	01/08/14 15:37	1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: MB 500-218759/1-A
Matrix: Solid
Analysis Batch: 219007

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 218759

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	68		50 - 116	01/03/14 16:38	01/08/14 15:37	1
DCB Decachlorobiphenyl	77		48 - 142	01/03/14 16:38	01/08/14 15:37	1

Lab Sample ID: LCS 500-218759/2-A
Matrix: Solid
Analysis Batch: 219007

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 218759

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
PCB-1016	167	154		ug/Kg		92	59 - 110
PCB-1260	167	437	E *	ug/Kg		262	69 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Tetrachloro-m-xylene	75		50 - 116
DCB Decachlorobiphenyl	89		48 - 142

Lab Sample ID: 500-69547-21 MS
Matrix: Solid
Analysis Batch: 219007

Client Sample ID: B-182 (5.1-7.1)
Prep Type: Total/NA
Prep Batch: 218759

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
PCB-1016	<6400		175	<6200		ug/Kg	☼	NC	59 - 110
PCB-1260	<8900	*	175	<8600		ug/Kg	☼	NC	69 - 120

Surrogate	MS %Recovery	MS Qualifier	Limits
Tetrachloro-m-xylene	0	D	50 - 116
DCB Decachlorobiphenyl	0	D	48 - 142

Lab Sample ID: 500-69547-21 MSD
Matrix: Solid
Analysis Batch: 219007

Client Sample ID: B-182 (5.1-7.1)
Prep Type: Total/NA
Prep Batch: 218759

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
PCB-1016	<6400		176	<6200		ug/Kg	☼	NC	59 - 110	NC	30
PCB-1260	<8900	*	176	<8600		ug/Kg	☼	NC	69 - 120	NC	30

Surrogate	MSD %Recovery	MSD Qualifier	Limits
Tetrachloro-m-xylene	0	D	50 - 116
DCB Decachlorobiphenyl	0	D	48 - 142

Lab Sample ID: MB 500-218836/1-A
Matrix: Solid
Analysis Batch: 219007

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 218836

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<5.9		17	5.9	ug/Kg		01/07/14 09:29	01/08/14 09:32	1
PCB-1221	<7.3		17	7.3	ug/Kg		01/07/14 09:29	01/08/14 09:32	1
PCB-1232	<7.3		17	7.3	ug/Kg		01/07/14 09:29	01/08/14 09:32	1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: MB 500-218836/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 219007 — **Prep Batch: 218836**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1242	<5.5		17	5.5	ug/Kg		01/07/14 09:29	01/08/14 09:32	1
PCB-1248	<6.6		17	6.6	ug/Kg		01/07/14 09:29	01/08/14 09:32	1
PCB-1254	<3.6		17	3.6	ug/Kg		01/07/14 09:29	01/08/14 09:32	1
PCB-1260	<8.2		17	8.2	ug/Kg		01/07/14 09:29	01/08/14 09:32	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*79*		*50 - 116*	*01/07/14 09:29*	*01/08/14 09:32*	*1*
DCB Decachlorobiphenyl	*93*		*48 - 142*	*01/07/14 09:29*	*01/08/14 09:32*	*1*

Lab Sample ID: LCS 500-218836/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 219007 — **Prep Batch: 218836**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
PCB-1016	167	163		ug/Kg		98	59 - 110
PCB-1260	167	176		ug/Kg		106	69 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene	*77*		*50 - 116*
DCB Decachlorobiphenyl	*90*		*48 - 142*

Lab Sample ID: 500-69547-1 MS — **Client Sample ID: B-178 (9-11)**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 219007 — **Prep Batch: 218836**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
PCB-1016	<5.9		168	170		ug/Kg	☼	102	59 - 110
PCB-1260	<8.2		168	182		ug/Kg	☼	109	69 - 120

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Tetrachloro-m-xylene	*82*		*50 - 116*
DCB Decachlorobiphenyl	*91*		*48 - 142*

Lab Sample ID: 500-69547-1 MSD — **Client Sample ID: B-178 (9-11)**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 219007 — **Prep Batch: 218836**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
PCB-1016	<5.9		169	171		ug/Kg	☼	101	59 - 110	0	30
PCB-1260	<8.2		169	179		ug/Kg	☼	106	69 - 120	1	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Tetrachloro-m-xylene	*74*		*50 - 116*
DCB Decachlorobiphenyl	*85*		*48 - 142*

Client Sample ID: B-178 (9-11)

Lab Sample ID: 500-69547-1

Date Collected: 01/02/14 09:00

Matrix: Solid

Date Received: 01/03/14 10:30

Percent Solids: 96.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			218769	01/02/14 09:00	WRE	TAL CHI
Total/NA	Analysis	8260B		50	218825	01/07/14 12:21	BDA	TAL CHI
Total/NA	Prep	3541			218836	01/07/14 09:29	STW	TAL CHI
Total/NA	Analysis	8082		1	219007	01/08/14 10:00	GMO	TAL CHI
Total/NA	Analysis	Moisture		1	218733	01/03/14 15:04	LWN	TAL CHI

Client Sample ID: B-188 (2-4)

Lab Sample ID: 500-69547-2

Date Collected: 01/02/14 09:45

Matrix: Solid

Date Received: 01/03/14 10:30

Percent Solids: 90.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			218769	01/02/14 09:45	WRE	TAL CHI
Total/NA	Analysis	8260B		50	218825	01/07/14 12:46	BDA	TAL CHI
Total/NA	Prep	3541			218836	01/07/14 09:29	STW	TAL CHI
Total/NA	Analysis	8082		10	219007	01/08/14 18:54	GMO	TAL CHI
Total/NA	Analysis	Moisture		1	218733	01/03/14 15:04	LWN	TAL CHI

Client Sample ID: B-188 (9-11)

Lab Sample ID: 500-69547-3

Date Collected: 01/02/14 09:50

Matrix: Solid

Date Received: 01/03/14 10:30

Percent Solids: 93.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			218769	01/02/14 09:50	WRE	TAL CHI
Total/NA	Analysis	8260B		50	218825	01/07/14 13:10	BDA	TAL CHI
Total/NA	Prep	3541			218836	01/07/14 09:29	STW	TAL CHI
Total/NA	Analysis	8082		1	219007	01/08/14 10:56	GMO	TAL CHI
Total/NA	Analysis	Moisture		1	218733	01/03/14 15:04	LWN	TAL CHI

Client Sample ID: B-188 (13-15)

Lab Sample ID: 500-69547-4

Date Collected: 01/02/14 09:55

Matrix: Solid

Date Received: 01/03/14 10:30

Percent Solids: 93.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			218769	01/02/14 09:55	WRE	TAL CHI
Total/NA	Analysis	8260B		50	218825	01/07/14 13:35	BDA	TAL CHI
Total/NA	Prep	3541			218836	01/07/14 09:29	STW	TAL CHI
Total/NA	Analysis	8082		1	219007	01/08/14 11:10	GMO	TAL CHI
Total/NA	Analysis	Moisture		1	218733	01/03/14 15:04	LWN	TAL CHI

Lab Chronicle

Client: ARCADIS U.S., Inc.
Project/Site: MadisonKipp

TestAmerica Job ID: 500-69547-1

Client Sample ID: B-149 (8-10)

Lab Sample ID: 500-69547-5

Date Collected: 01/02/14 10:45
Date Received: 01/03/14 10:30

Matrix: Solid
Percent Solids: 90.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			218769	01/02/14 10:45	WRE	TAL CHI
Total/NA	Analysis	8260B		50	218825	01/07/14 13:59	BDA	TAL CHI
Total/NA	Prep	3541			218836	01/07/14 09:29	STW	TAL CHI
Total/NA	Analysis	8082		5000	219007	01/09/14 12:51	GMO	TAL CHI
Total/NA	Analysis	Moisture		1	218733	01/03/14 15:04	LWN	TAL CHI

Client Sample ID: B-149 (10-11.4)

Lab Sample ID: 500-69547-6

Date Collected: 01/02/14 10:55
Date Received: 01/03/14 10:30

Matrix: Solid
Percent Solids: 96.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			218769	01/02/14 10:55	WRE	TAL CHI
Total/NA	Analysis	8260B		50	218825	01/07/14 14:24	BDA	TAL CHI
Total/NA	Prep	3541			218836	01/07/14 09:29	STW	TAL CHI
Total/NA	Analysis	8082		200	219007	01/08/14 19:22	GMO	TAL CHI
Total/NA	Analysis	Moisture		1	218733	01/03/14 15:04	LWN	TAL CHI

Client Sample ID: B-181 (1.5-3.5)

Lab Sample ID: 500-69547-7

Date Collected: 01/02/14 11:10
Date Received: 01/03/14 10:30

Matrix: Solid
Percent Solids: 82.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			218769	01/02/14 11:10	WRE	TAL CHI
Total/NA	Analysis	8260B		50	218825	01/07/14 14:48	BDA	TAL CHI
Total/NA	Prep	3541			218836	01/07/14 09:29	STW	TAL CHI
Total/NA	Analysis	8082		1000	219007	01/09/14 13:05	GMO	TAL CHI
Total/NA	Analysis	Moisture		1	218733	01/03/14 15:04	LWN	TAL CHI

Client Sample ID: B-181 (4-6)

Lab Sample ID: 500-69547-8

Date Collected: 01/02/14 11:15
Date Received: 01/03/14 10:30

Matrix: Solid
Percent Solids: 87.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			218769	01/02/14 11:15	WRE	TAL CHI
Total/NA	Analysis	8260B		50	218825	01/07/14 15:12	BDA	TAL CHI
Total/NA	Prep	3541			218836	01/07/14 09:29	STW	TAL CHI
Total/NA	Analysis	8082		10000	219007	01/09/14 13:20	GMO	TAL CHI
Total/NA	Analysis	Moisture		1	218733	01/03/14 15:04	LWN	TAL CHI

Client Sample ID: B-181 (8.4-10.4)

Lab Sample ID: 500-69547-9

Date Collected: 01/02/14 11:20
Matrix: Solid
Date Received: 01/03/14 10:30
Percent Solids: 93.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			218769	01/02/14 11:20	WRE	TAL CHI
Total/NA	Analysis	8260B		50	218825	01/07/14 15:37	BDA	TAL CHI
Total/NA	Prep	3541			218836	01/07/14 09:29	STW	TAL CHI
Total/NA	Analysis	8082		100	219007	01/08/14 20:04	GMO	TAL CHI
Total/NA	Analysis	Moisture		1	218733	01/03/14 15:04	LWN	TAL CHI

Client Sample ID: B-182 (1.2-3.2)

Lab Sample ID: 500-69547-10

Date Collected: 01/02/14 11:55
Matrix: Solid
Date Received: 01/03/14 10:30
Percent Solids: 83.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			218769	01/02/14 11:55	WRE	TAL CHI
Total/NA	Analysis	8260B		50	218825	01/07/14 16:02	BDA	TAL CHI
Total/NA	Prep	3541			218836	01/07/14 09:29	STW	TAL CHI
Total/NA	Analysis	8082		20	219007	01/08/14 12:49	GMO	TAL CHI
Total/NA	Analysis	Moisture		1	218733	01/03/14 15:04	LWN	TAL CHI

Client Sample ID: B-158 (8-9)

Lab Sample ID: 500-69547-11

Date Collected: 12/30/13 11:00
Matrix: Solid
Date Received: 01/03/14 10:30
Percent Solids: 96.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			218769	12/30/13 11:00	WRE	TAL CHI
Total/NA	Analysis	8260B		50	218825	01/07/14 16:26	BDA	TAL CHI
Total/NA	Prep	3541			218836	01/07/14 09:29	STW	TAL CHI
Total/NA	Analysis	8082		2000	219007	01/09/14 13:33	GMO	TAL CHI
Total/NA	Analysis	Moisture		1	218733	01/03/14 15:04	LWN	TAL CHI

Client Sample ID: B-158 (10-12)

Lab Sample ID: 500-69547-12

Date Collected: 12/30/13 11:30
Matrix: Solid
Date Received: 01/03/14 10:30
Percent Solids: 93.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			218769	12/30/13 11:30	WRE	TAL CHI
Total/NA	Analysis	8260B		50	218825	01/07/14 16:50	BDA	TAL CHI
Total/NA	Prep	3541			218836	01/07/14 09:29	STW	TAL CHI
Total/NA	Analysis	8082		500	219007	01/08/14 20:32	GMO	TAL CHI
Total/NA	Analysis	Moisture		1	218733	01/03/14 15:04	LWN	TAL CHI

Lab Chronicle

Client: ARCADIS U.S., Inc.
Project/Site: MadisonKipp

TestAmerica Job ID: 500-69547-1

Client Sample ID: B-175 (2-4)

Lab Sample ID: 500-69547-13

Date Collected: 12/30/13 14:00
Matrix: Solid
Date Received: 01/03/14 10:30
Percent Solids: 81.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			218769	12/30/13 14:00	WRE	TAL CHI
Total/NA	Analysis	8260B		50	218825	01/07/14 17:14	BDA	TAL CHI
Total/NA	Prep	3541			218836	01/07/14 09:29	STW	TAL CHI
Total/NA	Analysis	8082		1	219007	01/08/14 13:30	GMO	TAL CHI
Total/NA	Analysis	Moisture		1	218733	01/03/14 15:04	LWN	TAL CHI

Client Sample ID: B-175 (14-16)

Lab Sample ID: 500-69547-14

Date Collected: 12/30/13 14:15
Matrix: Solid
Date Received: 01/03/14 10:30
Percent Solids: 94.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			218769	12/30/13 14:15	WRE	TAL CHI
Total/NA	Analysis	8260B		50	218825	01/07/14 17:39	BDA	TAL CHI
Total/NA	Prep	3541			218836	01/07/14 09:29	STW	TAL CHI
Total/NA	Analysis	8082		1	219007	01/08/14 13:45	GMO	TAL CHI
Total/NA	Analysis	Moisture		1	218733	01/03/14 15:04	LWN	TAL CHI

Client Sample ID: B-175 (18.5-20.5)

Lab Sample ID: 500-69547-15

Date Collected: 12/30/13 14:40
Matrix: Solid
Date Received: 01/03/14 10:30
Percent Solids: 94.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			218769	12/30/13 14:40	WRE	TAL CHI
Total/NA	Analysis	8260B		50	218825	01/07/14 18:03	BDA	TAL CHI
Total/NA	Prep	3541			218836	01/07/14 09:29	STW	TAL CHI
Total/NA	Analysis	8082		1	219007	01/08/14 13:59	GMO	TAL CHI
Total/NA	Analysis	Moisture		1	218733	01/03/14 15:04	LWN	TAL CHI

Client Sample ID: B-176 (2-4)

Lab Sample ID: 500-69547-16

Date Collected: 12/30/13 15:00
Matrix: Solid
Date Received: 01/03/14 10:30
Percent Solids: 82.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			218769	12/30/13 15:00	WRE	TAL CHI
Total/NA	Analysis	8260B		50	218825	01/07/14 18:28	BDA	TAL CHI
Total/NA	Prep	3541			218836	01/07/14 09:29	STW	TAL CHI
Total/NA	Analysis	8082		1	219007	01/08/14 14:13	GMO	TAL CHI
Total/NA	Analysis	Moisture		1	218733	01/03/14 15:04	LWN	TAL CHI

Lab Chronicle

Client: ARCADIS U.S., Inc.
Project/Site: MadisonKipp

TestAmerica Job ID: 500-69547-1

Client Sample ID: B-176 (12-14)

Lab Sample ID: 500-69547-17

Date Collected: 12/30/13 15:15
Matrix: Solid
Date Received: 01/03/14 10:30
Percent Solids: 95.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			218769	12/30/13 15:15	WRE	TAL CHI
Total/NA	Analysis	8260B		50	218983	01/08/14 12:31	BDA	TAL CHI
Total/NA	Prep	3541			218836	01/07/14 09:29	STW	TAL CHI
Total/NA	Analysis	8082		1	219007	01/08/14 14:27	GMO	TAL CHI
Total/NA	Analysis	Moisture		1	218733	01/03/14 15:04	LWN	TAL CHI

Client Sample ID: B-176 (18.5-20.5)

Lab Sample ID: 500-69547-18

Date Collected: 12/30/13 15:30
Matrix: Solid
Date Received: 01/03/14 10:30
Percent Solids: 93.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			218769	12/30/13 15:30	WRE	TAL CHI
Total/NA	Analysis	8260B		50	218983	01/08/14 12:56	BDA	TAL CHI
Total/NA	Prep	3541			218836	01/07/14 09:29	STW	TAL CHI
Total/NA	Analysis	8082		1	219007	01/08/14 14:41	GMO	TAL CHI
Total/NA	Analysis	Moisture		1	218733	01/03/14 15:04	LWN	TAL CHI

Client Sample ID: B-178 (2-4)

Lab Sample ID: 500-69547-19

Date Collected: 01/02/14 08:30
Matrix: Solid
Date Received: 01/03/14 10:30
Percent Solids: 85.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			218770	01/02/14 08:30	WRE	TAL CHI
Total/NA	Analysis	8260B		50	218983	01/08/14 13:20	BDA	TAL CHI
Total/NA	Prep	3541			218836	01/07/14 09:29	STW	TAL CHI
Total/NA	Analysis	8082		1	219007	01/08/14 14:55	GMO	TAL CHI
Total/NA	Analysis	Moisture		1	218733	01/03/14 15:04	LWN	TAL CHI

Client Sample ID: B-178 (6-7.5)

Lab Sample ID: 500-69547-20

Date Collected: 01/02/14 08:45
Matrix: Solid
Date Received: 01/03/14 10:30
Percent Solids: 82.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			218770	01/02/14 08:45	WRE	TAL CHI
Total/NA	Analysis	8260B		50	218983	01/08/14 13:45	BDA	TAL CHI
Total/NA	Prep	3541			218836	01/07/14 09:29	STW	TAL CHI
Total/NA	Analysis	8082		1	219007	01/08/14 15:09	GMO	TAL CHI
Total/NA	Analysis	Moisture		1	218733	01/03/14 15:04	LWN	TAL CHI

Client Sample ID: B-182 (5.1-7.1)

Lab Sample ID: 500-69547-21

Date Collected: 01/02/14 12:20
Matrix: Solid
Date Received: 01/03/14 10:30
Percent Solids: 92.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			218770	01/02/14 12:20	WRE	TAL CHI
Total/NA	Analysis	8260B		50	218983	01/08/14 14:10	BDA	TAL CHI
Total/NA	Prep	3541			218759	01/03/14 16:38	DEA	TAL CHI
Total/NA	Analysis	8082		1000	219007	01/09/14 10:31	GMO	TAL CHI
Total/NA	Analysis	Moisture		1	218733	01/03/14 15:04	LWN	TAL CHI

Client Sample ID: B-182 (13.5-15.5)

Lab Sample ID: 500-69547-22

Date Collected: 01/02/14 12:30
Matrix: Solid
Date Received: 01/03/14 10:30
Percent Solids: 95.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			218770	01/02/14 12:30	WRE	TAL CHI
Total/NA	Analysis	8260B		50	218983	01/08/14 14:34	BDA	TAL CHI
Total/NA	Prep	3541			218759	01/03/14 16:38	DEA	TAL CHI
Total/NA	Analysis	8082		10000	219007	01/09/14 14:47	GMO	TAL CHI
Total/NA	Analysis	Moisture		1	218733	01/03/14 15:04	LWN	TAL CHI

Client Sample ID: B-148 (10-12)

Lab Sample ID: 500-69547-23

Date Collected: 01/02/14 14:00
Matrix: Solid
Date Received: 01/03/14 10:30
Percent Solids: 95.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			218770	01/02/14 14:00	WRE	TAL CHI
Total/NA	Analysis	8260B		50	218983	01/08/14 14:59	BDA	TAL CHI
Total/NA	Prep	3541			218759	01/03/14 16:38	DEA	TAL CHI
Total/NA	Analysis	8082		5000	219007	01/09/14 11:27	GMO	TAL CHI
Total/NA	Analysis	Moisture		1	218733	01/03/14 15:04	LWN	TAL CHI

Client Sample ID: B-148 (17.5-19.5)

Lab Sample ID: 500-69547-24

Date Collected: 01/02/14 14:10
Matrix: Solid
Date Received: 01/03/14 10:30
Percent Solids: 93.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			218770	01/02/14 14:10	WRE	TAL CHI
Total/NA	Analysis	8260B		50	218983	01/08/14 15:24	BDA	TAL CHI
Total/NA	Prep	3541			218759	01/03/14 16:38	DEA	TAL CHI
Total/NA	Analysis	8082		5	219007	01/09/14 11:41	GMO	TAL CHI
Total/NA	Analysis	Moisture		1	218733	01/03/14 15:04	LWN	TAL CHI

Lab Chronicle

Client: ARCADIS U.S., Inc.
Project/Site: MadisonKipp

TestAmerica Job ID: 500-69547-1

Client Sample ID: B-180 (0-2)

Lab Sample ID: 500-69547-25

Date Collected: 01/02/14 14:40
Matrix: Solid
Date Received: 01/03/14 10:30
Percent Solids: 80.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			218770	01/02/14 14:40	WRE	TAL CHI
Total/NA	Analysis	8260B		50	218983	01/08/14 15:48	BDA	TAL CHI
Total/NA	Prep	3541			218759	01/03/14 16:38	DEA	TAL CHI
Total/NA	Analysis	8082		200	219007	01/09/14 15:01	GMO	TAL CHI
Total/NA	Analysis	Moisture		1	218733	01/03/14 15:04	LWN	TAL CHI

Client Sample ID: B-180 (4-6)

Lab Sample ID: 500-69547-26

Date Collected: 01/02/14 14:50
Matrix: Solid
Date Received: 01/03/14 10:30
Percent Solids: 88.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			218770	01/02/14 14:50	WRE	TAL CHI
Total/NA	Analysis	8260B		50	218983	01/08/14 16:13	BDA	TAL CHI
Total/NA	Prep	3541			218759	01/03/14 16:38	DEA	TAL CHI
Total/NA	Analysis	8082		5000	219007	01/09/14 15:15	GMO	TAL CHI
Total/NA	Analysis	Moisture		1	218733	01/03/14 15:04	LWN	TAL CHI

Client Sample ID: B-180 (14.6-16.6)

Lab Sample ID: 500-69547-27

Date Collected: 01/02/14 14:55
Matrix: Solid
Date Received: 01/03/14 10:30
Percent Solids: 90.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			218770	01/02/14 14:55	WRE	TAL CHI
Total/NA	Analysis	8260B		50	218983	01/08/14 16:38	BDA	TAL CHI
Total/NA	Prep	3541			218759	01/03/14 16:38	DEA	TAL CHI
Total/NA	Analysis	8082		5000	219007	01/09/14 15:29	GMO	TAL CHI
Total/NA	Analysis	Moisture		1	218733	01/03/14 15:04	LWN	TAL CHI

Client Sample ID: B-150 (13-15)

Lab Sample ID: 500-69547-28

Date Collected: 01/02/14 15:50
Matrix: Solid
Date Received: 01/03/14 10:30
Percent Solids: 94.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			218770	01/02/14 15:50	WRE	TAL CHI
Total/NA	Analysis	8260B		50	218983	01/08/14 17:02	BDA	TAL CHI
Total/NA	Prep	3541			218759	01/03/14 16:38	DEA	TAL CHI
Total/NA	Analysis	8082		100	219007	01/09/14 12:37	GMO	TAL CHI
Total/NA	Analysis	Moisture		1	218733	01/03/14 15:04	LWN	TAL CHI

Lab Chronicle

Client: ARCADIS U.S., Inc.
Project/Site: MadisonKipp

TestAmerica Job ID: 500-69547-1

Client Sample ID: B-150 (18-20)

Lab Sample ID: 500-69547-29

Date Collected: 01/02/14 15:55
Matrix: Solid
Date Received: 01/03/14 10:30
Percent Solids: 94.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			218770	01/02/14 15:55	WRE	TAL CHI
Total/NA	Analysis	8260B		50	218983	01/08/14 17:27	BDA	TAL CHI
Total/NA	Prep	3541			218759	01/03/14 16:38	DEA	TAL CHI
Total/NA	Analysis	8082		1	219007	01/08/14 18:26	GMO	TAL CHI
Total/NA	Analysis	Moisture		1	218733	01/03/14 15:04	LWN	TAL CHI

Client Sample ID: Trip Blank

Lab Sample ID: 500-69547-30

Date Collected: 12/30/13 00:00
Matrix: Solid
Date Received: 01/03/14 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			218770	12/30/13 00:00	WRE	TAL CHI
Total/NA	Analysis	8260B		50	218983	01/08/14 17:51	BDA	TAL CHI

Client Sample ID: Trip Blank

Lab Sample ID: 500-69547-31

Date Collected: 01/02/14 00:00
Matrix: Solid
Date Received: 01/03/14 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			218770	01/02/14 00:00	WRE	TAL CHI
Total/NA	Analysis	8260B		50	219128	01/09/14 11:01	BDA	TAL CHI

Laboratory References:

TAL CHI = TestAmerica Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Certification Summary

Client: ARCADIS U.S., Inc.
Project/Site: MadisonKipp

TestAmerica Job ID: 500-69547-1

Laboratory: TestAmerica Chicago

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Alabama	State Program	4	40461	04-30-14
California	NELAP	9	01132CA	04-30-14
Georgia	State Program	4	N/A	04-30-14
Hawaii	State Program	9	N/A	04-30-14
Illinois	NELAP	5	100201	04-30-14
Indiana	State Program	5	C-IL-02	04-30-14
Iowa	State Program	7	82	05-01-14
Kansas	NELAP	7	E-10161	10-31-14
Kentucky (UST)	State Program	4	66	04-30-14
Louisiana	NELAP	6	30720	06-30-14
Massachusetts	State Program	1	M-IL035	06-30-14
Mississippi	State Program	4	N/A	04-30-14
North Carolina DENR	State Program	4	291	12-31-14
North Dakota	State Program	8	R-194	04-30-14
Oklahoma	State Program	6	8908	08-31-14
South Carolina	State Program	4	77001	04-30-14
Texas	NELAP	6	T104704252-09-TX	02-28-14
USDA	Federal		P330-12-00038	02-06-15
Wisconsin	State Program	5	999580010	08-31-14
Wyoming	State Program	8	8TMS-Q	04-30-14

TestAmerica

THE LEADER IN ENVIRONMENTAL

2417 Bond Street, University Park, IL 60
Phone: 708.534.5200 Fax: 708.534

500-69547 COC

Chain of Custody Record

1/3

Lab Job #: 500-69547

Chain of Custody Number:

Page _____ of _____

Temperature °C of Cooler: (3.4) (4.1)

Report To (optional)		Bill To (optional)	
Contact:	Toni Schoen	Contact:	
Company:	ARCADIS	Company:	
Address:	126 N. Jefferson # 400	Address:	
Address:	Milwaukee, WI 53202	Address:	
Phone:	414-276-7603	Phone:	
Fax:	414-276-7742	Fax:	
E-Mail:	Toni.Schoen@ARCADIS-us.com	PO#/Reference#	

Client	Client Project #	Lab Project #	Lab PM
ARCADIS			
Project Name: Madison-Kipp			
Project Location/State: Madison, WI			
Sampler: Bryan Ernst			

Preservative Key
1. HCL, Cool to 4°
2. H2SO4, Cool to 4°
3. HNO3, Cool to 4°
4. NaOH, Cool to 4°
5. NaOH/Zn, Cool to 4°
6. NaHSO4
7. Cool to 4°
8. None
9. Other

Lab ID	MS/MSD	Sample ID	Sampling Date	Sampling Time	# of Containers	Matrix	Preservative	Parameter: PCBs	Parameter: VOCs + Dry wt.	Comments
								None	MeOH	
1		B-178 (9-11)	1/2/14	0900	3	S		1	1	
2		B-188 (2-4)		0945	3	S		1	1	
3		B-188 (9-11)		0950	3	S		1	1	
4		B-188 (13-15)		0955	3	S		1	1	
5		B-149 (8-10)		1045	3	S		1	1	
6		B-149 (10-11.4)		1055	3	S		1	1	
7		B-181 (1.5-3.5)		1110	3	S		1	1	
8		B-181 (4-6)		1115	3	S		1	1	
9		B-181 (8.4-10.4)		1120	3	S		1	1	
10		B-182 (1.2-3.2)		1155	3	S		1	1	

Turnaround Time Required (Business Days)
___ 1 Day ___ 2 Days ___ 5 Days 0 7 Days ___ 10 Days ___ 15 Days _____ Other
Requested Due Date Standard

Sample Disposal
☐ Return to Client ☐ Disposal by Lab ☐ Archive for _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Relinquished By	Company	Date	Time	Received By	Company	Date	Time
Bryan Ernst	ARCADIS	1/2/14	1800	JLT	TA	1/3/14	1030
Relinquished By	Company	Date	Time	Received By	Company	Date	Time
Relinquished By	Company	Date	Time	Received By	Company	Date	Time

Lab Courier
Shipped FX
Hand Delivered

Matrix Key
WW – Wastewater
W – Water
S – Soil
SL – Sludge
MS – Miscellaneous
OL – Oil
A – Air
SE – Sediment
SO – Soil
L – Leachate
WI – Wipe
DW – Drinking Water
O – Other

Client Comments

Lab Comments:

TAL-4124-500 (1209)

1/13/2014

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

2417 Bond Street, University Park, IL 60484
Phone: 708.534.5200 Fax: 708.534.5211

Chain of Custody Record

Lab Job #: 500-69547

Chain of Custody Number:

Page _____ of _____

Temperature °C of Cooler:

Report To (optional)		Bill To (optional)	
Contact:	Toni Schoen	Contact:	
Company:	ARCADIS	Company:	
Address:	126 N. Jefferson #400	Address:	
Address:	Milwaukee, WI 53202	Address:	
Phone:	414-276-7742	Phone:	
Fax:	414-276-7603	Fax:	
E-Mail:	Toni.Schoen@ARCADIS-US.com	PO#/Reference#	

Client	Client Project #	Preservative	NONE	MeOH							
ARCADIS		Parameter	PCBs	VOCs + Dry Wt.							
Project Name: Madison-Kipp											
Project Location/State: Madison, WI	Lab Project #										
Sampler: Bryan Ernst	Lab PM										

Preservative Key
1. HCL, Cool to 4°
2. H2SO4, Cool to 4°
3. HNO3, Cool to 4°
4. NaOH, Cool to 4°
5. NaOH/Zn, Cool to 4°
6. NaHSO4
7. Cool to 4°
8. None
9. Other

Lab ID	MS/MSD	Sample ID	Sampling Date	Sampling Time	# of Containers	Matrix			Comments
11		B-158 (8-9)	12/30/13	1100	3	S	1	1	
12		B-158 (10-12)		1130	3	S	1	1	
13		B-175 (2-4)		1400	3	S	1	1	
14		B-175 (14-16)		1415	3	S	1	1	
15		B-175 (18.5-20.5)		1440	3	S	1	1	
16		B-176 (2-4)		1500	3	S	1	1	
17		B-176 (12-14)		1515	3	S	1	1	
18		B-176 (18.5-20.5)		1530	3	S	1	1	
19		B-178 (2-4)	1/2/14	0830	3	S	1	1	
20		B-178 (6-7.5)	1/2/14	0845	3	S	1	1	

Turnaround Time Required (Business Days)
___ 1 Day ___ 2 Days ___ 5 Days ___ 7 Days ___ 10 Days ___ 15 Days _____ Other
Requested Due Date: Standard

Sample Disposal
☐ Return to Client ☐ Disposal by Lab ☐ Archive for _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Relinquished By	Company	Date	Time	Received By	Company	Date	Time
Bryan Ernst	ARCADIS	1/2/14	1800		TA	1/3/14	1030
Relinquished By	Company	Date	Time	Received By	Company	Date	Time
Relinquished By	Company	Date	Time	Received By	Company	Date	Time

Lab Courier:
Shipped: FX
Hand Delivered:

Matrix Key
WW – Wastewater
W – Water
S – Soil
SL – Sludge
MS – Miscellaneous
OL – Oil
A – Air
SE – Sediment
SO – Soil
L – Leachate
WI – Wipe
DW – Drinking Water
O – Other

Client Comments:

Lab Comments:

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
2417 Bond Street, University Park, IL 60484
Phone: 708.534.5200 Fax: 708.534.5211

(optional)
Report To
Contact: Toni Schoen
Company: ARCADIS
Address: 126 N Jefferson #400
Address: Milwaukee, WI 53202
Phone: 414-276-7742
Fax: 414-276-7603
E-Mail: Toni.Schoen@ARCADIS-US.com

(optional)
Bill To
Contact:
Company:
Address:
Address:
Phone:
Fax:
PO#/Reference#

Chain of Custody Record

Lab Job #: 500-69547
Chain of Custody Number:
Page _____ of _____
Temperature °C of Cooler:

Client: ARCADIS
Client Project #:
Project Name: Madison - Kipp
Project Location/State: Madison, WI
Lab Project #:
Sampler: Bryan Ernst
Lab PM:

Preservative Key
1. HCL, Cool to 4°
2. H2SO4, Cool to 4°
3. HNO3, Cool to 4°
4. NaOH, Cool to 4°
5. NaOH/Zn, Cool to 4°
6. NaHSO4
7. Cool to 4°
8. None
9. Other

Lab ID	MS/MSD	Sample ID	Sampling Date	Sampling Time	# of Containers	Matrix	Parameter: PCBs (Preservative: NONE)	Parameter: VOCs + Dry Wt (Preservative: MeOH)	Comments
21		B-182 (5.1-7.1)	1/2/14	12:20	3	S	X	X	
22		B-182 (13.5-15.5)		12:30	3	S	X	X	
23		B-148 (10-12)		1400	3	S	X	X	
24		B-148 (17.5-19.5)		1410	3	S	X	X	
25		B-180 (0-2)		1440	3	S	X	X	
26		B-180 (4-6)		1450	3	S	X	X	
27		B-180 (14.6-16.6)		1455	3	S	X	X	
28		B-150 (13-15)		1550	3	S	X	X	
29		B-150 (18-20)		1555	3	S	X	X	
30		Trip Blank			2	O	X	X	added by TA
31		Trip Blank							

Turnaround Time Required (Business Days)
___ 1 Day ___ 2 Days ___ 5 Days 1 7 Days ___ 10 Days ___ 15 Days _____ Other
Requested Due Date: Standard

Sample Disposal
☐ Return to Client ☐ Disposal by Lab ☐ Archive for _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Relinquished By	Company	Date	Time	Received By	Company	Date	Time
Bryan Ernst	ARCADIS	1/2/14	1800		TA	1/3/14	1030
Relinquished By	Company	Date	Time	Received By	Company	Date	Time
Relinquished By	Company	Date	Time	Received By	Company	Date	Time

Lab Courier
Shipped FX
Hand Delivered

Matrix Key
WW – Wastewater
W – Water
S – Soil
SL – Sludge
MS – Miscellaneous
OL – Oil
A – Air
SE – Sediment
SO – Soil
L – Leachate
WI – Wipe
DW – Drinking Water
O – Other

Client Comments

Lab Comments:

Login Sample Receipt Checklist

Client: ARCADIS U.S., Inc.

Job Number: 500-69547-1

Login Number: 69547

List Source: TestAmerica Chicago

List Number: 1

Creator: Lunt, Jeff T

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	3.4,4.1
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Chicago
2417 Bond Street
University Park, IL 60484
Tel: (708)534-5200

TestAmerica Job ID: 500-69634-1
Client Project/Site: MadisonKipp

For:
ARCADIS U.S., Inc.
126 North Jefferson Street
Suite 400
Milwaukee, Wisconsin 53202

Attn: Ms. Toni Schoen

Authorized for release by:
1/15/2014 2:19:05 PM

Sandie Fredrick, Project Manager II
(920)261-1660
sandie.fredrick@testamericainc.com

Table of Contents

Client: ARCADIS U.S., Inc.
Project/Site: MadisonKipp

TestAmerica Job ID: 500-69634-1

Job ID: 500-69634-1

Laboratory: TestAmerica Chicago

Narrative

Job Narrative
500-69634-1

Comments
No additional comments.

Receipt
The samples were received on 1/7/2014 10:10 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 1.4º C.

Except: Received sample 20 not on COC, added to COC and logged in.

GC/MS VOA
Method(s) 5035: Extract vial has < 8 grams of soil in 10 ml of methanol

Method(s) 8260B: The extraction laboratory control sample (LCS) for batches 218925 and 218929 recovered outside control limits for the following analyte: dichlorodifluoromethane. The instrument laboratory control sample (LCS) recovered within control limits; therefore, the data have been reported.

No other analytical or quality issues were noted.

GC Semi VOA
Method(s) 8082: The following samples were diluted to bring the concentration of target analytes within the calibration range: B-158 (15-17) (500-69634-18), B-160 (12-14) (500-69634-13), B-179 (2-4) (500-69634-15), B-179 (4-6) (500-69634-20), B-179 (9-11) (500-69634-16), B-181 (18.1-20.1) (500-69634-17), B-186 (2-4) (500-69634-1), B-191 (2-4) (500-69634-21). Elevated reporting limits (RLs) are provided.

Method(s) 8082: The following samples required a dilution due to the nature of the sample matrix: B-158 (15-17) (500-69634-18), B-179 (2-4) (500-69634-15), B-179 (4-6) (500-69634-20), B-179 (9-11) (500-69634-16), B-181 (18.1-20.1) (500-69634-17), B-191 (2-4) (500-69634-21). Because of this dilution, the surrogate spike concentrations in the samples were reduced to a level where the recovery calculation does not provide useful information.

Method(s) 8082: Due to the high concentration of AR1242, the matrix spike / matrix spike duplicates (MS/MSD) for batches 218973 and 218974 could not be evaluated for accuracy and precision. The associated laboratory control samples (LCS) met acceptance criteria.B-186 (2-4) (500-69634-1), B-191 (2-4) (500-69634-21)

No other analytical or quality issues were noted.

Metals
No analytical or quality issues were noted.

Organic Prep
No analytical or quality issues were noted.

Detection Summary

Client: ARCADIS U.S., Inc.
Project/Site: MadisonKipp

TestAmerica Job ID: 500-69634-1

Client Sample ID: B-186 (2-4) — Lab Sample ID: 500-69634-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1242	570		40	13	ug/Kg	2	☼	8082	Total/NA

Client Sample ID: B-185 (1.5-3.5) — Lab Sample ID: 500-69634-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1242	53		19	6.2	ug/Kg	1	☼	8082	Total/NA

Client Sample ID: B-184 (2-4) — Lab Sample ID: 500-69634-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1242	21		19	6.4	ug/Kg	1	☼	8082	Total/NA

Client Sample ID: B-184 (14-16) — Lab Sample ID: 500-69634-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1242	5.7	J	17	5.6	ug/Kg	1	☼	8082	Total/NA

Client Sample ID: B-184 (18.5-20.5) — Lab Sample ID: 500-69634-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1242	24		18	5.7	ug/Kg	1	☼	8082	Total/NA

Client Sample ID: B-177 (2-4) — Lab Sample ID: 500-69634-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1242	19	J	20	6.5	ug/Kg	1	☼	8082	Total/NA

Client Sample ID: B-183 (1.7-3.7) — Lab Sample ID: 500-69634-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1242	48		19	6.3	ug/Kg	1	☼	8082	Total/NA

Client Sample ID: B-183 (8-10) — Lab Sample ID: 500-69634-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1242	14	J	17	5.5	ug/Kg	1	☼	8082	Total/NA

Client Sample ID: B-183 (17.3-19.3) — Lab Sample ID: 500-69634-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1242	25		17	5.6	ug/Kg	1	☼	8082	Total/NA

Client Sample ID: B-187 (1.3-3.3) — Lab Sample ID: 500-69634-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1242	12	J	18	5.9	ug/Kg	1	☼	8082	Total/NA

Client Sample ID: B-187 (8-10) — Lab Sample ID: 500-69634-11

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: ARCADIS U.S., Inc.
Project/Site: MadisonKipp

TestAmerica Job ID: 500-69634-1

Client Sample ID: B-187 (8-10) (Continued) — Lab Sample ID: 500-69634-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1242	12	J	17	5.6	ug/Kg	1	☼	8082	Total/NA

Client Sample ID: B-187 (12-14) — Lab Sample ID: 500-69634-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1242	150		17	5.7	ug/Kg	1	☼	8082	Total/NA

Client Sample ID: B-160 (12-14) — Lab Sample ID: 500-69634-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1242	1800		170	55	ug/Kg	10	☼	8082	Total/NA

Client Sample ID: B-160 (17-19) — Lab Sample ID: 500-69634-14

No Detections.

Client Sample ID: B-179 (2-4) — Lab Sample ID: 500-69634-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2,4-Trimethylbenzene	140	J	190	20	ug/Kg	50	☼	8260B	Total/NA
Isopropylbenzene	120	J	190	24	ug/Kg	50	☼	8260B	Total/NA
PCB-1242	60000		3800	1300	ug/Kg	200	☼	8082	Total/NA

Client Sample ID: B-179 (9-11) — Lab Sample ID: 500-69634-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2,4-Trichlorobenzene	160		110	20	ug/Kg	50	☼	8260B	Total/NA
1,2,4-Trimethylbenzene	330		110	11	ug/Kg	50	☼	8260B	Total/NA
1,3,5-Trimethylbenzene	84	J	110	11	ug/Kg	50	☼	8260B	Total/NA
Isopropylbenzene	210		110	13	ug/Kg	50	☼	8260B	Total/NA
Naphthalene	100	J	110	26	ug/Kg	50	☼	8260B	Total/NA
n-Butylbenzene	98		53	6.9	ug/Kg	50	☼	8260B	Total/NA
N-Propylbenzene	48	J	110	9.4	ug/Kg	50	☼	8260B	Total/NA
p-Isopropyltoluene	45	J	110	9.9	ug/Kg	50	☼	8260B	Total/NA
Tetrachloroethene	460		53	8.9	ug/Kg	50	☼	8260B	Total/NA
Xylenes, Total	60		27	3.7	ug/Kg	50	☼	8260B	Total/NA
PCB-1242	3400000		330000	110000	ug/Kg	20000	☼	8082	Total/NA

Client Sample ID: B-181 (18.1-20.1) — Lab Sample ID: 500-69634-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2,4-Trimethylbenzene	93	J	170	17	ug/Kg	50	☼	8260B	Total/NA
cis-1,2-Dichloroethene	220		83	10	ug/Kg	50	☼	8260B	Total/NA
Tetrachloroethene	3100		83	14	ug/Kg	50	☼	8260B	Total/NA
Trichloroethene	39	J	41	15	ug/Kg	50	☼	8260B	Total/NA
Vinyl chloride	27		21	8.6	ug/Kg	50	☼	8260B	Total/NA
PCB-1242	82000		8100	2700	ug/Kg	500	☼	8082	Total/NA

Client Sample ID: B-158 (15-17) — Lab Sample ID: 500-69634-18

This Detection Summary does not include radiochemical test results.

Client Sample ID: B-158 (15-17) (Continued) — Lab Sample ID: 500-69634-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2,3-Trichlorobenzene	470		170	30	ug/Kg	50	☼	8260B	Total/NA
1,2,4-Trichlorobenzene	340		170	32	ug/Kg	50	☼	8260B	Total/NA
1,2,4-Trimethylbenzene	320		170	18	ug/Kg	50	☼	8260B	Total/NA
1,2-Dichlorobenzene	500		170	17	ug/Kg	50	☼	8260B	Total/NA
1,3,5-Trimethylbenzene	86	J	170	18	ug/Kg	50	☼	8260B	Total/NA
1,3-Dichlorobenzene	370		170	22	ug/Kg	50	☼	8260B	Total/NA
1,4-Dichlorobenzene	200		170	15	ug/Kg	50	☼	8260B	Total/NA
cis-1,2-Dichloroethene	230		85	10	ug/Kg	50	☼	8260B	Total/NA
Isopropylbenzene	410		170	21	ug/Kg	50	☼	8260B	Total/NA
Naphthalene	110	J	170	42	ug/Kg	50	☼	8260B	Total/NA
n-Butylbenzene	85		85	11	ug/Kg	50	☼	8260B	Total/NA
Tetrachloroethene	640		85	14	ug/Kg	50	☼	8260B	Total/NA
Toluene	17	J	21	9.8	ug/Kg	50	☼	8260B	Total/NA
Trichloroethene	40	J	43	16	ug/Kg	50	☼	8260B	Total/NA
Xylenes, Total	31	J	43	5.8	ug/Kg	50	☼	8260B	Total/NA
PCB-1242	1100000		85000	28000	ug/Kg	5000	☼	8082	Total/NA

Client Sample ID: B-179 (21.1-23.1) — Lab Sample ID: 500-69634-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1242	110		18	5.8	ug/Kg	1	☼	8082	Total/NA

Client Sample ID: B-179 (4-6) — Lab Sample ID: 500-69634-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2,4-Trimethylbenzene	320		220	24	ug/Kg	50	☼	8260B	Total/NA
1,3,5-Trimethylbenzene	86	J	220	23	ug/Kg	50	☼	8260B	Total/NA
Isopropylbenzene	440		220	28	ug/Kg	50	☼	8260B	Total/NA
n-Butylbenzene	89	J	110	14	ug/Kg	50	☼	8260B	Total/NA
PCB-1242	2300000		190000	62000	ug/Kg	10000	☼	8082	Total/NA

Client Sample ID: B-191 (2-4) — Lab Sample ID: 500-69634-21

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1242	6100		920	300	ug/Kg	50	☼	8082	Total/NA

Client Sample ID: B-191 (13.7-15.7) — Lab Sample ID: 500-69634-22

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Toluene	55		21	9.6	ug/Kg	50	☼	8260B	Total/NA
PCB-1242	9.3	J	17	5.6	ug/Kg	1	☼	8082	Total/NA

Client Sample ID: B-191 (17.3-19.3) — Lab Sample ID: 500-69634-23

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1242	7.5	J	18	5.8	ug/Kg	1	☼	8082	Total/NA

Client Sample ID: Trip Blank — Lab Sample ID: 500-69634-24

No Detections.

This Detection Summary does not include radiochemical test results.

Method Summary

Client: ARCADIS U.S., Inc.
Project/Site: MadisonKipp

TestAmerica Job ID: 500-69634-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL CHI
8082	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL CHI
Moisture	Percent Moisture	EPA	TAL CHI

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL CHI = TestAmerica Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Sample Summary

Client: ARCADIS U.S., Inc.
Project/Site: MadisonKipp

TestAmerica Job ID: 500-69634-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-69634-1	B-186 (2-4)	Solid	01/03/14 07:50	01/07/14 10:10
500-69634-2	B-185 (1.5-3.5)	Solid	01/03/14 08:20	01/07/14 10:10
500-69634-3	B-184 (2-4)	Solid	01/03/14 08:45	01/07/14 10:10
500-69634-4	B-184 (14-16)	Solid	01/03/14 10:10	01/07/14 10:10
500-69634-5	B-184 (18.5-20.5)	Solid	01/03/14 10:20	01/07/14 10:10
500-69634-6	B-177 (2-4)	Solid	01/03/14 09:45	01/07/14 10:10
500-69634-7	B-183 (1.7-3.7)	Solid	01/03/14 10:30	01/07/14 10:10
500-69634-8	B-183 (8-10)	Solid	01/03/14 11:15	01/07/14 10:10
500-69634-9	B-183 (17.3-19.3)	Solid	01/03/14 11:20	01/07/14 10:10
500-69634-10	B-187 (1.3-3.3)	Solid	01/03/14 11:40	01/07/14 10:10
500-69634-11	B-187 (8-10)	Solid	01/03/14 12:00	01/07/14 10:10
500-69634-12	B-187 (12-14)	Solid	01/03/14 12:05	01/07/14 10:10
500-69634-13	B-160 (12-14)	Solid	01/03/14 12:50	01/07/14 10:10
500-69634-14	B-160 (17-19)	Solid	01/03/14 12:55	01/07/14 10:10
500-69634-15	B-179 (2-4)	Solid	01/03/14 13:25	01/07/14 10:10
500-69634-16	B-179 (9-11)	Solid	01/03/14 14:00	01/07/14 10:10
500-69634-17	B-181 (18.1-20.1)	Solid	01/03/14 14:30	01/07/14 10:10
500-69634-18	B-158 (15-17)	Solid	01/03/14 15:15	01/07/14 10:10
500-69634-19	B-179 (21.1-23.1)	Solid	01/04/14 08:20	01/07/14 10:10
500-69634-20	B-179 (4-6)	Solid	01/03/14 13:50	01/07/14 10:10
500-69634-21	B-191 (2-4)	Solid	01/04/14 10:20	01/07/14 10:10
500-69634-22	B-191 (13.7-15.7)	Solid	01/04/14 10:40	01/07/14 10:10
500-69634-23	B-191 (17.3-19.3)	Solid	01/04/14 10:45	01/07/14 10:10
500-69634-24	Trip Blank	Solid	01/03/14 00:00	01/07/14 10:10

Client: ARCADIS U.S., Inc.
Project/Site: MadisonKipp

TestAmerica Job ID: 500-69634-1

Client Sample ID: B-186 (2-4)
Date Collected: 01/03/14 07:50
Date Received: 01/07/14 10:10

Lab Sample ID: 500-69634-1
Matrix: Solid
Percent Solids: 81.7

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<41		240	41	ug/Kg	☼	01/03/14 07:50	01/08/14 17:32	50
1,1,1-Trichloroethane	<24		120	24	ug/Kg	☼	01/03/14 07:50	01/08/14 17:32	50
1,1,2,2-Tetrachloroethane	<28		120	28	ug/Kg	☼	01/03/14 07:50	01/08/14 17:32	50
1,1,2-Trichloroethane	<33		120	33	ug/Kg	☼	01/03/14 07:50	01/08/14 17:32	50
1,1-Dichloroethane	<22		120	22	ug/Kg	☼	01/03/14 07:50	01/08/14 17:32	50
1,1-Dichloroethene	<36		120	36	ug/Kg	☼	01/03/14 07:50	01/08/14 17:32	50
1,1-Dichloropropene	<41		120	41	ug/Kg	☼	01/03/14 07:50	01/08/14 17:32	50
1,2,3-Trichlorobenzene	<42		240	42	ug/Kg	☼	01/03/14 07:50	01/08/14 17:32	50
1,2,3-Trichloropropane	<68		240	68	ug/Kg	☼	01/03/14 07:50	01/08/14 17:32	50
1,2,4-Trichlorobenzene	<45		240	45	ug/Kg	☼	01/03/14 07:50	01/08/14 17:32	50
1,2,4-Trimethylbenzene	<25		240	25	ug/Kg	☼	01/03/14 07:50	01/08/14 17:32	50
1,2-Dibromo-3-Chloropropane	<100		240	100	ug/Kg	☼	01/03/14 07:50	01/08/14 17:32	50
1,2-Dibromoethane	<37		240	37	ug/Kg	☼	01/03/14 07:50	01/08/14 17:32	50
1,2-Dichlorobenzene	<24		240	24	ug/Kg	☼	01/03/14 07:50	01/08/14 17:32	50
1,2-Dichloroethane	<34		120	34	ug/Kg	☼	01/03/14 07:50	01/08/14 17:32	50
1,2-Dichloropropane	<23		120	23	ug/Kg	☼	01/03/14 07:50	01/08/14 17:32	50
1,3,5-Trimethylbenzene	<24		240	24	ug/Kg	☼	01/03/14 07:50	01/08/14 17:32	50
1,3-Dichlorobenzene	<31		240	31	ug/Kg	☼	01/03/14 07:50	01/08/14 17:32	50
1,3-Dichloropropane	<16		120	16	ug/Kg	☼	01/03/14 07:50	01/08/14 17:32	50
1,4-Dichlorobenzene	<21		240	21	ug/Kg	☼	01/03/14 07:50	01/08/14 17:32	50
2,2-Dichloropropane	<38		120	38	ug/Kg	☼	01/03/14 07:50	01/08/14 17:32	50
2-Chlorotoluene	<25		120	25	ug/Kg	☼	01/03/14 07:50	01/08/14 17:32	50
4-Chlorotoluene	<23		120	23	ug/Kg	☼	01/03/14 07:50	01/08/14 17:32	50
Benzene	<8.8		30	8.8	ug/Kg	☼	01/03/14 07:50	01/08/14 17:32	50
Bromobenzene	<50		240	50	ug/Kg	☼	01/03/14 07:50	01/08/14 17:32	50
Bromochloromethane	<45		240	45	ug/Kg	☼	01/03/14 07:50	01/08/14 17:32	50
Bromodichloromethane	<40		240	40	ug/Kg	☼	01/03/14 07:50	01/08/14 17:32	50
Bromoform	<52		240	52	ug/Kg	☼	01/03/14 07:50	01/08/14 17:32	50
Bromomethane	<81		240	81	ug/Kg	☼	01/03/14 07:50	01/08/14 17:32	50
Carbon tetrachloride	<31		120	31	ug/Kg	☼	01/03/14 07:50	01/08/14 17:32	50
Chlorobenzene	<17		120	17	ug/Kg	☼	01/03/14 07:50	01/08/14 17:32	50
Chloroethane	<52		240	52	ug/Kg	☼	01/03/14 07:50	01/08/14 17:32	50
Chloroform	<24		120	24	ug/Kg	☼	01/03/14 07:50	01/08/14 17:32	50
Chloromethane	<55		240	55	ug/Kg	☼	01/03/14 07:50	01/08/14 17:32	50
cis-1,2-Dichloroethene	<15		120	15	ug/Kg	☼	01/03/14 07:50	01/08/14 17:32	50
cis-1,3-Dichloropropene	<21		120	21	ug/Kg	☼	01/03/14 07:50	01/08/14 17:32	50
Dibromochloromethane	<41		240	41	ug/Kg	☼	01/03/14 07:50	01/08/14 17:32	50
Dibromomethane	<57		240	57	ug/Kg	☼	01/03/14 07:50	01/08/14 17:32	50
Dichlorodifluoromethane	<61		240	61	ug/Kg	☼	01/03/14 07:50	01/08/14 17:32	50
Ethylbenzene	<15		30	15	ug/Kg	☼	01/03/14 07:50	01/08/14 17:32	50
Hexachlorobutadiene	<41		240	41	ug/Kg	☼	01/03/14 07:50	01/08/14 17:32	50
Isopropyl ether	<17		240	17	ug/Kg	☼	01/03/14 07:50	01/08/14 17:32	50
Isopropylbenzene	<30		240	30	ug/Kg	☼	01/03/14 07:50	01/08/14 17:32	50
Methyl tert-butyl ether	<51		240	51	ug/Kg	☼	01/03/14 07:50	01/08/14 17:32	50
Methylene Chloride	<81		590	81	ug/Kg	☼	01/03/14 07:50	01/08/14 17:32	50
Naphthalene	<59		240	59	ug/Kg	☼	01/03/14 07:50	01/08/14 17:32	50
n-Butylbenzene	<15		120	15	ug/Kg	☼	01/03/14 07:50	01/08/14 17:32	50
N-Propylbenzene	<21		240	21	ug/Kg	☼	01/03/14 07:50	01/08/14 17:32	50
p-Isopropyltoluene	<22		240	22	ug/Kg	☼	01/03/14 07:50	01/08/14 17:32	50

Client: ARCADIS U.S., Inc.
Project/Site: MadisonKipp

TestAmerica Job ID: 500-69634-1

Client Sample ID: B-186 (2-4)

Lab Sample ID: 500-69634-1
Date Collected: 01/03/14 07:50
Matrix: Solid
Date Received: 01/07/14 10:10
Percent Solids: 81.7

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	<18		120	18	ug/Kg	☼	01/03/14 07:50	01/08/14 17:32	50
Styrene	<12		120	12	ug/Kg	☼	01/03/14 07:50	01/08/14 17:32	50
tert-Butylbenzene	<16		120	16	ug/Kg	☼	01/03/14 07:50	01/08/14 17:32	50
Tetrachloroethene	<20		120	20	ug/Kg	☼	01/03/14 07:50	01/08/14 17:32	50
Toluene	<14		30	14	ug/Kg	☼	01/03/14 07:50	01/08/14 17:32	50
trans-1,2-Dichloroethene	<30		120	30	ug/Kg	☼	01/03/14 07:50	01/08/14 17:32	50
trans-1,3-Dichloropropene	<25		120	25	ug/Kg	☼	01/03/14 07:50	01/08/14 17:32	50
Trichloroethene	<22		59	22	ug/Kg	☼	01/03/14 07:50	01/08/14 17:32	50
Trichlorofluoromethane	<49		240	49	ug/Kg	☼	01/03/14 07:50	01/08/14 17:32	50
Vinyl chloride	<12		30	12	ug/Kg	☼	01/03/14 07:50	01/08/14 17:32	50
Xylenes, Total	<8.1		59	8.1	ug/Kg	☼	01/03/14 07:50	01/08/14 17:32	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*75 - 125*	*01/03/14 07:50*	*01/08/14 17:32*	*50*
4-Bromofluorobenzene (Surr)	*104*		*75 - 120*	*01/03/14 07:50*	*01/08/14 17:32*	*50*
Dibromofluoromethane	*86*		*75 - 120*	*01/03/14 07:50*	*01/08/14 17:32*	*50*
Toluene-d8 (Surr)	*95*		*75 - 120*	*01/03/14 07:50*	*01/08/14 17:32*	*50*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<14		40	14	ug/Kg	☼	01/08/14 07:03	01/10/14 16:41	2
PCB-1221	<17		40	17	ug/Kg	☼	01/08/14 07:03	01/10/14 16:41	2
PCB-1232	<17		40	17	ug/Kg	☼	01/08/14 07:03	01/10/14 16:41	2
PCB-1242	**570**		40	13	ug/Kg	☼	01/08/14 07:03	01/10/14 16:41	2
PCB-1248	<16		40	16	ug/Kg	☼	01/08/14 07:03	01/10/14 16:41	2
PCB-1254	<8.5		40	8.5	ug/Kg	☼	01/08/14 07:03	01/10/14 16:41	2
PCB-1260	<19		40	19	ug/Kg	☼	01/08/14 07:03	01/10/14 16:41	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*74*		*50 - 116*	*01/08/14 07:03*	*01/10/14 16:41*	*2*
DCB Decachlorobiphenyl	*95*		*48 - 142*	*01/08/14 07:03*	*01/10/14 16:41*	*2*

Client Sample ID: B-185 (1.5-3.5)

Lab Sample ID: 500-69634-2
Date Collected: 01/03/14 08:20
Matrix: Solid
Date Received: 01/07/14 10:10
Percent Solids: 87.4

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<33		190	33	ug/Kg	☼	01/03/14 07:50	01/08/14 17:57	50
1,1,1-Trichloroethane	<19		96	19	ug/Kg	☼	01/03/14 07:50	01/08/14 17:57	50
1,1,2,2-Tetrachloroethane	<22		96	22	ug/Kg	☼	01/03/14 07:50	01/08/14 17:57	50
1,1,2-Trichloroethane	<27		96	27	ug/Kg	☼	01/03/14 07:50	01/08/14 17:57	50
1,1-Dichloroethane	<18		96	18	ug/Kg	☼	01/03/14 07:50	01/08/14 17:57	50
1,1-Dichloroethene	<29		96	29	ug/Kg	☼	01/03/14 07:50	01/08/14 17:57	50
1,1-Dichloropropene	<33		96	33	ug/Kg	☼	01/03/14 07:50	01/08/14 17:57	50
1,2,3-Trichlorobenzene	<33		190	33	ug/Kg	☼	01/03/14 07:50	01/08/14 17:57	50
1,2,3-Trichloropropane	<55		190	55	ug/Kg	☼	01/03/14 07:50	01/08/14 17:57	50
1,2,4-Trichlorobenzene	<36		190	36	ug/Kg	☼	01/03/14 07:50	01/08/14 17:57	50
1,2,4-Trimethylbenzene	<20		190	20	ug/Kg	☼	01/03/14 07:50	01/08/14 17:57	50
1,2-Dibromo-3-Chloropropane	<83		190	83	ug/Kg	☼	01/03/14 07:50	01/08/14 17:57	50

Client: ARCADIS U.S., Inc.
Project/Site: MadisonKipp

TestAmerica Job ID: 500-69634-1

Client Sample ID: B-185 (1.5-3.5)
Date Collected: 01/03/14 08:20
Date Received: 01/07/14 10:10

Lab Sample ID: 500-69634-2
Matrix: Solid
Percent Solids: 87.4

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane	<30		190	30	ug/Kg	☼	01/03/14 07:50	01/08/14 17:57	50
1,2-Dichlorobenzene	<20		190	20	ug/Kg	☼	01/03/14 07:50	01/08/14 17:57	50
1,2-Dichloroethane	<27		96	27	ug/Kg	☼	01/03/14 07:50	01/08/14 17:57	50
1,2-Dichloropropane	<19		96	19	ug/Kg	☼	01/03/14 07:50	01/08/14 17:57	50
1,3,5-Trimethylbenzene	<20		190	20	ug/Kg	☼	01/03/14 07:50	01/08/14 17:57	50
1,3-Dichlorobenzene	<25		190	25	ug/Kg	☼	01/03/14 07:50	01/08/14 17:57	50
1,3-Dichloropropane	<13		96	13	ug/Kg	☼	01/03/14 07:50	01/08/14 17:57	50
1,4-Dichlorobenzene	<17		190	17	ug/Kg	☼	01/03/14 07:50	01/08/14 17:57	50
2,2-Dichloropropane	<30		96	30	ug/Kg	☼	01/03/14 07:50	01/08/14 17:57	50
2-Chlorotoluene	<20		96	20	ug/Kg	☼	01/03/14 07:50	01/08/14 17:57	50
4-Chlorotoluene	<19		96	19	ug/Kg	☼	01/03/14 07:50	01/08/14 17:57	50
Benzene	<7.1		24	7.1	ug/Kg	☼	01/03/14 07:50	01/08/14 17:57	50
Bromobenzene	<41		190	41	ug/Kg	☼	01/03/14 07:50	01/08/14 17:57	50
Bromochloromethane	<36		190	36	ug/Kg	☼	01/03/14 07:50	01/08/14 17:57	50
Bromodichloromethane	<32		190	32	ug/Kg	☼	01/03/14 07:50	01/08/14 17:57	50
Bromoform	<42		190	42	ug/Kg	☼	01/03/14 07:50	01/08/14 17:57	50
Bromomethane	<65		190	65	ug/Kg	☼	01/03/14 07:50	01/08/14 17:57	50
Carbon tetrachloride	<25		96	25	ug/Kg	☼	01/03/14 07:50	01/08/14 17:57	50
Chlorobenzene	<14		96	14	ug/Kg	☼	01/03/14 07:50	01/08/14 17:57	50
Chloroethane	<42		190	42	ug/Kg	☼	01/03/14 07:50	01/08/14 17:57	50
Chloroform	<20		96	20	ug/Kg	☼	01/03/14 07:50	01/08/14 17:57	50
Chloromethane	<44		190	44	ug/Kg	☼	01/03/14 07:50	01/08/14 17:57	50
cis-1,2-Dichloroethene	<12		96	12	ug/Kg	☼	01/03/14 07:50	01/08/14 17:57	50
cis-1,3-Dichloropropene	<17		96	17	ug/Kg	☼	01/03/14 07:50	01/08/14 17:57	50
Dibromochloromethane	<33		190	33	ug/Kg	☼	01/03/14 07:50	01/08/14 17:57	50
Dibromomethane	<46		190	46	ug/Kg	☼	01/03/14 07:50	01/08/14 17:57	50
Dichlorodifluoromethane	<49		190	49	ug/Kg	☼	01/03/14 07:50	01/08/14 17:57	50
Ethylbenzene	<12		24	12	ug/Kg	☼	01/03/14 07:50	01/08/14 17:57	50
Hexachlorobutadiene	<33		190	33	ug/Kg	☼	01/03/14 07:50	01/08/14 17:57	50
Isopropyl ether	<14		190	14	ug/Kg	☼	01/03/14 07:50	01/08/14 17:57	50
Isopropylbenzene	<24		190	24	ug/Kg	☼	01/03/14 07:50	01/08/14 17:57	50
Methyl tert-butyl ether	<41		190	41	ug/Kg	☼	01/03/14 07:50	01/08/14 17:57	50
Methylene Chloride	<65		480	65	ug/Kg	☼	01/03/14 07:50	01/08/14 17:57	50
Naphthalene	<47		190	47	ug/Kg	☼	01/03/14 07:50	01/08/14 17:57	50
n-Butylbenzene	<12		96	12	ug/Kg	☼	01/03/14 07:50	01/08/14 17:57	50
N-Propylbenzene	<17		190	17	ug/Kg	☼	01/03/14 07:50	01/08/14 17:57	50
p-Isopropyltoluene	<18		190	18	ug/Kg	☼	01/03/14 07:50	01/08/14 17:57	50
sec-Butylbenzene	<15		96	15	ug/Kg	☼	01/03/14 07:50	01/08/14 17:57	50
Styrene	<9.4		96	9.4	ug/Kg	☼	01/03/14 07:50	01/08/14 17:57	50
tert-Butylbenzene	<13		96	13	ug/Kg	☼	01/03/14 07:50	01/08/14 17:57	50
Tetrachloroethene	<16		96	16	ug/Kg	☼	01/03/14 07:50	01/08/14 17:57	50
Toluene	<11		24	11	ug/Kg	☼	01/03/14 07:50	01/08/14 17:57	50
trans-1,2-Dichloroethene	<24		96	24	ug/Kg	☼	01/03/14 07:50	01/08/14 17:57	50
trans-1,3-Dichloropropene	<20		96	20	ug/Kg	☼	01/03/14 07:50	01/08/14 17:57	50
Trichloroethene	<18		48	18	ug/Kg	☼	01/03/14 07:50	01/08/14 17:57	50
Trichlorofluoromethane	<40		190	40	ug/Kg	☼	01/03/14 07:50	01/08/14 17:57	50
Vinyl chloride	<9.9		24	9.9	ug/Kg	☼	01/03/14 07:50	01/08/14 17:57	50
Xylenes, Total	<6.5		48	6.5	ug/Kg	☼	01/03/14 07:50	01/08/14 17:57	50

Client Sample ID: B-185 (1.5-3.5)

Lab Sample ID: 500-69634-2

Date Collected: 01/03/14 08:20

Matrix: Solid

Date Received: 01/07/14 10:10

Percent Solids: 87.4

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		75 - 125	01/03/14 07:50	01/08/14 17:57	50
4-Bromofluorobenzene (Surr)	104		75 - 120	01/03/14 07:50	01/08/14 17:57	50
Dibromofluoromethane	86		75 - 120	01/03/14 07:50	01/08/14 17:57	50
Toluene-d8 (Surr)	96		75 - 120	01/03/14 07:50	01/08/14 17:57	50

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<6.7		19	6.7	ug/Kg	☼	01/08/14 07:03	01/10/14 09:26	1
PCB-1221	<8.4		19	8.4	ug/Kg	☼	01/08/14 07:03	01/10/14 09:26	1
PCB-1232	<8.3		19	8.3	ug/Kg	☼	01/08/14 07:03	01/10/14 09:26	1
PCB-1242	53		19	6.2	ug/Kg	☼	01/08/14 07:03	01/10/14 09:26	1
PCB-1248	<7.5		19	7.5	ug/Kg	☼	01/08/14 07:03	01/10/14 09:26	1
PCB-1254	<4.1		19	4.1	ug/Kg	☼	01/08/14 07:03	01/10/14 09:26	1
PCB-1260	<9.3		19	9.3	ug/Kg	☼	01/08/14 07:03	01/10/14 09:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	77		50 - 116	01/08/14 07:03	01/10/14 09:26	1
DCB Decachlorobiphenyl	97		48 - 142	01/08/14 07:03	01/10/14 09:26	1

Client Sample ID: B-184 (2-4)

Lab Sample ID: 500-69634-3

Date Collected: 01/03/14 08:45

Matrix: Solid

Date Received: 01/07/14 10:10

Percent Solids: 85.5

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<37		210	37	ug/Kg	☼	01/03/14 08:45	01/08/14 18:22	50
1,1,1-Trichloroethane	<21		110	21	ug/Kg	☼	01/03/14 08:45	01/08/14 18:22	50
1,1,2,2-Tetrachloroethane	<25		110	25	ug/Kg	☼	01/03/14 08:45	01/08/14 18:22	50
1,1,2-Trichloroethane	<30		110	30	ug/Kg	☼	01/03/14 08:45	01/08/14 18:22	50
1,1-Dichloroethane	<20		110	20	ug/Kg	☼	01/03/14 08:45	01/08/14 18:22	50
1,1-Dichloroethene	<32		110	32	ug/Kg	☼	01/03/14 08:45	01/08/14 18:22	50
1,1-Dichloropropene	<36		110	36	ug/Kg	☼	01/03/14 08:45	01/08/14 18:22	50
1,2,3-Trichlorobenzene	<37		210	37	ug/Kg	☼	01/03/14 08:45	01/08/14 18:22	50
1,2,3-Trichloropropane	<61		210	61	ug/Kg	☼	01/03/14 08:45	01/08/14 18:22	50
1,2,4-Trichlorobenzene	<40		210	40	ug/Kg	☼	01/03/14 08:45	01/08/14 18:22	50
1,2,4-Trimethylbenzene	<22		210	22	ug/Kg	☼	01/03/14 08:45	01/08/14 18:22	50
1,2-Dibromo-3-Chloropropane	<92		210	92	ug/Kg	☼	01/03/14 08:45	01/08/14 18:22	50
1,2-Dibromoethane	<33		210	33	ug/Kg	☼	01/03/14 08:45	01/08/14 18:22	50
1,2-Dichlorobenzene	<22		210	22	ug/Kg	☼	01/03/14 08:45	01/08/14 18:22	50
1,2-Dichloroethane	<30		110	30	ug/Kg	☼	01/03/14 08:45	01/08/14 18:22	50
1,2-Dichloropropane	<21		110	21	ug/Kg	☼	01/03/14 08:45	01/08/14 18:22	50
1,3,5-Trimethylbenzene	<22		210	22	ug/Kg	☼	01/03/14 08:45	01/08/14 18:22	50
1,3-Dichlorobenzene	<27		210	27	ug/Kg	☼	01/03/14 08:45	01/08/14 18:22	50
1,3-Dichloropropane	<14		110	14	ug/Kg	☼	01/03/14 08:45	01/08/14 18:22	50
1,4-Dichlorobenzene	<18		210	18	ug/Kg	☼	01/03/14 08:45	01/08/14 18:22	50
2,2-Dichloropropane	<33		110	33	ug/Kg	☼	01/03/14 08:45	01/08/14 18:22	50
2-Chlorotoluene	<22		110	22	ug/Kg	☼	01/03/14 08:45	01/08/14 18:22	50
4-Chlorotoluene	<21		110	21	ug/Kg	☼	01/03/14 08:45	01/08/14 18:22	50
Benzene	<7.9		26	7.9	ug/Kg	☼	01/03/14 08:45	01/08/14 18:22	50
Bromobenzene	<45		210	45	ug/Kg	☼	01/03/14 08:45	01/08/14 18:22	50
Bromochloromethane	<40		210	40	ug/Kg	☼	01/03/14 08:45	01/08/14 18:22	50

Client Sample ID: B-184 (2-4)
Date Collected: 01/03/14 08:45
Date Received: 01/07/14 10:10

Lab Sample ID: 500-69634-3
Matrix: Solid
Percent Solids: 85.5

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromodichloromethane	<36		210	36	ug/Kg	☼	01/03/14 08:45	01/08/14 18:22	50
Bromoform	<47		210	47	ug/Kg	☼	01/03/14 08:45	01/08/14 18:22	50
Bromomethane	<72		210	72	ug/Kg	☼	01/03/14 08:45	01/08/14 18:22	50
Carbon tetrachloride	<27		110	27	ug/Kg	☼	01/03/14 08:45	01/08/14 18:22	50
Chlorobenzene	<15		110	15	ug/Kg	☼	01/03/14 08:45	01/08/14 18:22	50
Chloroethane	<46		210	46	ug/Kg	☼	01/03/14 08:45	01/08/14 18:22	50
Chloroform	<22		110	22	ug/Kg	☼	01/03/14 08:45	01/08/14 18:22	50
Chloromethane	<49		210	49	ug/Kg	☼	01/03/14 08:45	01/08/14 18:22	50
cis-1,2-Dichloroethene	<13		110	13	ug/Kg	☼	01/03/14 08:45	01/08/14 18:22	50
cis-1,3-Dichloropropene	<19		110	19	ug/Kg	☼	01/03/14 08:45	01/08/14 18:22	50
Dibromochloromethane	<37		210	37	ug/Kg	☼	01/03/14 08:45	01/08/14 18:22	50
Dibromomethane	<51		210	51	ug/Kg	☼	01/03/14 08:45	01/08/14 18:22	50
Dichlorodifluoromethane	<54		210	54	ug/Kg	☼	01/03/14 08:45	01/08/14 18:22	50
Ethylbenzene	<13		26	13	ug/Kg	☼	01/03/14 08:45	01/08/14 18:22	50
Hexachlorobutadiene	<37		210	37	ug/Kg	☼	01/03/14 08:45	01/08/14 18:22	50
Isopropyl ether	<16		210	16	ug/Kg	☼	01/03/14 08:45	01/08/14 18:22	50
Isopropylbenzene	<27		210	27	ug/Kg	☼	01/03/14 08:45	01/08/14 18:22	50
Methyl tert-butyl ether	<46		210	46	ug/Kg	☼	01/03/14 08:45	01/08/14 18:22	50
Methylene Chloride	<72		530	72	ug/Kg	☼	01/03/14 08:45	01/08/14 18:22	50
Naphthalene	<52		210	52	ug/Kg	☼	01/03/14 08:45	01/08/14 18:22	50
n-Butylbenzene	<14		110	14	ug/Kg	☼	01/03/14 08:45	01/08/14 18:22	50
N-Propylbenzene	<19		210	19	ug/Kg	☼	01/03/14 08:45	01/08/14 18:22	50
p-Isopropyltoluene	<20		210	20	ug/Kg	☼	01/03/14 08:45	01/08/14 18:22	50
sec-Butylbenzene	<16		110	16	ug/Kg	☼	01/03/14 08:45	01/08/14 18:22	50
Styrene	<10		110	10	ug/Kg	☼	01/03/14 08:45	01/08/14 18:22	50
tert-Butylbenzene	<14		110	14	ug/Kg	☼	01/03/14 08:45	01/08/14 18:22	50
Tetrachloroethene	<18		110	18	ug/Kg	☼	01/03/14 08:45	01/08/14 18:22	50
Toluene	<12		26	12	ug/Kg	☼	01/03/14 08:45	01/08/14 18:22	50
trans-1,2-Dichloroethene	<26		110	26	ug/Kg	☼	01/03/14 08:45	01/08/14 18:22	50
trans-1,3-Dichloropropene	<22		110	22	ug/Kg	☼	01/03/14 08:45	01/08/14 18:22	50
Trichloroethene	<20		53	20	ug/Kg	☼	01/03/14 08:45	01/08/14 18:22	50
Trichlorofluoromethane	<44		210	44	ug/Kg	☼	01/03/14 08:45	01/08/14 18:22	50
Vinyl chloride	<11		26	11	ug/Kg	☼	01/03/14 08:45	01/08/14 18:22	50
Xylenes, Total	<7.2		53	7.2	ug/Kg	☼	01/03/14 08:45	01/08/14 18:22	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*75 - 125*	*01/03/14 08:45*	*01/08/14 18:22*	*50*
4-Bromofluorobenzene (Surr)	*104*		*75 - 120*	*01/03/14 08:45*	*01/08/14 18:22*	*50*
Dibromofluoromethane	*84*		*75 - 120*	*01/03/14 08:45*	*01/08/14 18:22*	*50*
Toluene-d8 (Surr)	*96*		*75 - 120*	*01/03/14 08:45*	*01/08/14 18:22*	*50*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<6.9		19	6.9	ug/Kg	☼	01/08/14 07:03	01/10/14 09:40	1
PCB-1221	<8.5		19	8.5	ug/Kg	☼	01/08/14 07:03	01/10/14 09:40	1
PCB-1232	<8.4		19	8.4	ug/Kg	☼	01/08/14 07:03	01/10/14 09:40	1
PCB-1242	**21**		19	6.4	ug/Kg	☼	01/08/14 07:03	01/10/14 09:40	1
PCB-1248	<7.6		19	7.6	ug/Kg	☼	01/08/14 07:03	01/10/14 09:40	1
PCB-1254	<4.2		19	4.2	ug/Kg	☼	01/08/14 07:03	01/10/14 09:40	1
PCB-1260	<9.5		19	9.5	ug/Kg	☼	01/08/14 07:03	01/10/14 09:40	1

Client Sample ID: B-184 (2-4)

Lab Sample ID: 500-69634-3

Date Collected: 01/03/14 08:45
Matrix: Solid
Date Received: 01/07/14 10:10
Percent Solids: 85.5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	*72*		*50 - 116*	*01/08/14 07:03*	*01/10/14 09:40*	*1*
DCB Decachlorobiphenyl	*93*		*48 - 142*	*01/08/14 07:03*	*01/10/14 09:40*	*1*

Client Sample ID: B-184 (14-16)

Lab Sample ID: 500-69634-4

Date Collected: 01/03/14 10:10
Matrix: Solid
Date Received: 01/07/14 10:10
Percent Solids: 94.4

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<32		190	32	ug/Kg	☼	01/03/14 10:10	01/08/14 18:47	50
1,1,1-Trichloroethane	<19		94	19	ug/Kg	☼	01/03/14 10:10	01/08/14 18:47	50
1,1,2,2-Tetrachloroethane	<22		94	22	ug/Kg	☼	01/03/14 10:10	01/08/14 18:47	50
1,1,2-Trichloroethane	<26		94	26	ug/Kg	☼	01/03/14 10:10	01/08/14 18:47	50
1,1-Dichloroethane	<17		94	17	ug/Kg	☼	01/03/14 10:10	01/08/14 18:47	50
1,1-Dichloroethene	<29		94	29	ug/Kg	☼	01/03/14 10:10	01/08/14 18:47	50
1,1-Dichloropropene	<32		94	32	ug/Kg	☼	01/03/14 10:10	01/08/14 18:47	50
1,2,3-Trichlorobenzene	<33		190	33	ug/Kg	☼	01/03/14 10:10	01/08/14 18:47	50
1,2,3-Trichloropropane	<54		190	54	ug/Kg	☼	01/03/14 10:10	01/08/14 18:47	50
1,2,4-Trichlorobenzene	<35		190	35	ug/Kg	☼	01/03/14 10:10	01/08/14 18:47	50
1,2,4-Trimethylbenzene	<20		190	20	ug/Kg	☼	01/03/14 10:10	01/08/14 18:47	50
1,2-Dibromo-3-Chloropropane	<82		190	82	ug/Kg	☼	01/03/14 10:10	01/08/14 18:47	50
1,2-Dibromoethane	<29		190	29	ug/Kg	☼	01/03/14 10:10	01/08/14 18:47	50
1,2-Dichlorobenzene	<19		190	19	ug/Kg	☼	01/03/14 10:10	01/08/14 18:47	50
1,2-Dichloroethane	<27		94	27	ug/Kg	☼	01/03/14 10:10	01/08/14 18:47	50
1,2-Dichloropropane	<18		94	18	ug/Kg	☼	01/03/14 10:10	01/08/14 18:47	50
1,3,5-Trimethylbenzene	<19		190	19	ug/Kg	☼	01/03/14 10:10	01/08/14 18:47	50
1,3-Dichlorobenzene	<24		190	24	ug/Kg	☼	01/03/14 10:10	01/08/14 18:47	50
1,3-Dichloropropane	<13		94	13	ug/Kg	☼	01/03/14 10:10	01/08/14 18:47	50
1,4-Dichlorobenzene	<16		190	16	ug/Kg	☼	01/03/14 10:10	01/08/14 18:47	50
2,2-Dichloropropane	<30		94	30	ug/Kg	☼	01/03/14 10:10	01/08/14 18:47	50
2-Chlorotoluene	<19		94	19	ug/Kg	☼	01/03/14 10:10	01/08/14 18:47	50
4-Chlorotoluene	<18		94	18	ug/Kg	☼	01/03/14 10:10	01/08/14 18:47	50
Benzene	<7.0		23	7.0	ug/Kg	☼	01/03/14 10:10	01/08/14 18:47	50
Bromobenzene	<40		190	40	ug/Kg	☼	01/03/14 10:10	01/08/14 18:47	50
Bromochloromethane	<35		190	35	ug/Kg	☼	01/03/14 10:10	01/08/14 18:47	50
Bromodichloromethane	<32		190	32	ug/Kg	☼	01/03/14 10:10	01/08/14 18:47	50
Bromoform	<41		190	41	ug/Kg	☼	01/03/14 10:10	01/08/14 18:47	50
Bromomethane	<64		190	64	ug/Kg	☼	01/03/14 10:10	01/08/14 18:47	50
Carbon tetrachloride	<24		94	24	ug/Kg	☼	01/03/14 10:10	01/08/14 18:47	50
Chlorobenzene	<13		94	13	ug/Kg	☼	01/03/14 10:10	01/08/14 18:47	50
Chloroethane	<41		190	41	ug/Kg	☼	01/03/14 10:10	01/08/14 18:47	50
Chloroform	<19		94	19	ug/Kg	☼	01/03/14 10:10	01/08/14 18:47	50
Chloromethane	<43		190	43	ug/Kg	☼	01/03/14 10:10	01/08/14 18:47	50
cis-1,2-Dichloroethene	<12		94	12	ug/Kg	☼	01/03/14 10:10	01/08/14 18:47	50
cis-1,3-Dichloropropene	<17		94	17	ug/Kg	☼	01/03/14 10:10	01/08/14 18:47	50
Dibromochloromethane	<32		190	32	ug/Kg	☼	01/03/14 10:10	01/08/14 18:47	50
Dibromomethane	<45		190	45	ug/Kg	☼	01/03/14 10:10	01/08/14 18:47	50
Dichlorodifluoromethane	<48		190	48	ug/Kg	☼	01/03/14 10:10	01/08/14 18:47	50
Ethylbenzene	<12		23	12	ug/Kg	☼	01/03/14 10:10	01/08/14 18:47	50
Hexachlorobutadiene	<32		190	32	ug/Kg	☼	01/03/14 10:10	01/08/14 18:47	50

Client Sample ID: B-184 (14-16)

Lab Sample ID: 500-69634-4

Date Collected: 01/03/14 10:10
Matrix: Solid
Date Received: 01/07/14 10:10
Percent Solids: 94.4

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isopropyl ether	<14		190	14	ug/Kg	☼	01/03/14 10:10	01/08/14 18:47	50
Isopropylbenzene	<24		190	24	ug/Kg	☼	01/03/14 10:10	01/08/14 18:47	50
Methyl tert-butyl ether	<40		190	40	ug/Kg	☼	01/03/14 10:10	01/08/14 18:47	50
Methylene Chloride	<64		470	64	ug/Kg	☼	01/03/14 10:10	01/08/14 18:47	50
Naphthalene	<46		190	46	ug/Kg	☼	01/03/14 10:10	01/08/14 18:47	50
n-Butylbenzene	<12		94	12	ug/Kg	☼	01/03/14 10:10	01/08/14 18:47	50
N-Propylbenzene	<16		190	16	ug/Kg	☼	01/03/14 10:10	01/08/14 18:47	50
p-Isopropyltoluene	<17		190	17	ug/Kg	☼	01/03/14 10:10	01/08/14 18:47	50
sec-Butylbenzene	<14		94	14	ug/Kg	☼	01/03/14 10:10	01/08/14 18:47	50
Styrene	<9.3		94	9.3	ug/Kg	☼	01/03/14 10:10	01/08/14 18:47	50
tert-Butylbenzene	<13		94	13	ug/Kg	☼	01/03/14 10:10	01/08/14 18:47	50
Tetrachloroethene	<16		94	16	ug/Kg	☼	01/03/14 10:10	01/08/14 18:47	50
Toluene	<11		23	11	ug/Kg	☼	01/03/14 10:10	01/08/14 18:47	50
trans-1,2-Dichloroethene	<23		94	23	ug/Kg	☼	01/03/14 10:10	01/08/14 18:47	50
trans-1,3-Dichloropropene	<20		94	20	ug/Kg	☼	01/03/14 10:10	01/08/14 18:47	50
Trichloroethene	<17		47	17	ug/Kg	☼	01/03/14 10:10	01/08/14 18:47	50
Trichlorofluoromethane	<39		190	39	ug/Kg	☼	01/03/14 10:10	01/08/14 18:47	50
Vinyl chloride	<9.8		23	9.8	ug/Kg	☼	01/03/14 10:10	01/08/14 18:47	50
Xylenes, Total	<6.4		47	6.4	ug/Kg	☼	01/03/14 10:10	01/08/14 18:47	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*99*		*75 - 125*	*01/03/14 10:10*	*01/08/14 18:47*	*50*
4-Bromofluorobenzene (Surr)	*106*		*75 - 120*	*01/03/14 10:10*	*01/08/14 18:47*	*50*
Dibromofluoromethane	*84*		*75 - 120*	*01/03/14 10:10*	*01/08/14 18:47*	*50*
Toluene-d8 (Surr)	*96*		*75 - 120*	*01/03/14 10:10*	*01/08/14 18:47*	*50*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<6.1		17	6.1	ug/Kg	☼	01/08/14 07:03	01/10/14 09:54	1
PCB-1221	<7.6		17	7.6	ug/Kg	☼	01/08/14 07:03	01/10/14 09:54	1
PCB-1232	<7.5		17	7.5	ug/Kg	☼	01/08/14 07:03	01/10/14 09:54	1
PCB-1242	**5.7**	**J**	17	5.6	ug/Kg	☼	01/08/14 07:03	01/10/14 09:54	1
PCB-1248	<6.8		17	6.8	ug/Kg	☼	01/08/14 07:03	01/10/14 09:54	1
PCB-1254	<3.7		17	3.7	ug/Kg	☼	01/08/14 07:03	01/10/14 09:54	1
PCB-1260	<8.4		17	8.4	ug/Kg	☼	01/08/14 07:03	01/10/14 09:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*60*		*50 - 116*	*01/08/14 07:03*	*01/10/14 09:54*	*1*
DCB Decachlorobiphenyl	*86*		*48 - 142*	*01/08/14 07:03*	*01/10/14 09:54*	*1*

Client Sample ID: B-184 (18.5-20.5)

Lab Sample ID: 500-69634-5

Date Collected: 01/03/14 10:20
Matrix: Solid
Date Received: 01/07/14 10:10
Percent Solids: 92.4

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<31		180	31	ug/Kg	☼	01/03/14 10:20	01/08/14 19:12	50
1,1,1-Trichloroethane	<18		88	18	ug/Kg	☼	01/03/14 10:20	01/08/14 19:12	50
1,1,2,2-Tetrachloroethane	<21		88	21	ug/Kg	☼	01/03/14 10:20	01/08/14 19:12	50
1,1,2-Trichloroethane	<25		88	25	ug/Kg	☼	01/03/14 10:20	01/08/14 19:12	50

Client: ARCADIS U.S., Inc.
Project/Site: MadisonKipp

TestAmerica Job ID: 500-69634-1

Client Sample ID: B-184 (18.5-20.5)
Date Collected: 01/03/14 10:20
Date Received: 01/07/14 10:10

Lab Sample ID: 500-69634-5
Matrix: Solid
Percent Solids: 92.4

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	<16		88	16	ug/Kg	☼	01/03/14 10:20	01/08/14 19:12	50
1,1-Dichloroethene	<27		88	27	ug/Kg	☼	01/03/14 10:20	01/08/14 19:12	50
1,1-Dichloropropene	<30		88	30	ug/Kg	☼	01/03/14 10:20	01/08/14 19:12	50
1,2,3-Trichlorobenzene	<31		180	31	ug/Kg	☼	01/03/14 10:20	01/08/14 19:12	50
1,2,3-Trichloropropane	<51		180	51	ug/Kg	☼	01/03/14 10:20	01/08/14 19:12	50
1,2,4-Trichlorobenzene	<33		180	33	ug/Kg	☼	01/03/14 10:20	01/08/14 19:12	50
1,2,4-Trimethylbenzene	<19		180	19	ug/Kg	☼	01/03/14 10:20	01/08/14 19:12	50
1,2-Dibromo-3-Chloropropane	<77		180	77	ug/Kg	☼	01/03/14 10:20	01/08/14 19:12	50
1,2-Dibromoethane	<28		180	28	ug/Kg	☼	01/03/14 10:20	01/08/14 19:12	50
1,2-Dichlorobenzene	<18		180	18	ug/Kg	☼	01/03/14 10:20	01/08/14 19:12	50
1,2-Dichloroethane	<25		88	25	ug/Kg	☼	01/03/14 10:20	01/08/14 19:12	50
1,2-Dichloropropane	<17		88	17	ug/Kg	☼	01/03/14 10:20	01/08/14 19:12	50
1,3,5-Trimethylbenzene	<18		180	18	ug/Kg	☼	01/03/14 10:20	01/08/14 19:12	50
1,3-Dichlorobenzene	<23		180	23	ug/Kg	☼	01/03/14 10:20	01/08/14 19:12	50
1,3-Dichloropropane	<12		88	12	ug/Kg	☼	01/03/14 10:20	01/08/14 19:12	50
1,4-Dichlorobenzene	<15		180	15	ug/Kg	☼	01/03/14 10:20	01/08/14 19:12	50
2,2-Dichloropropane	<28		88	28	ug/Kg	☼	01/03/14 10:20	01/08/14 19:12	50
2-Chlorotoluene	<18		88	18	ug/Kg	☼	01/03/14 10:20	01/08/14 19:12	50
4-Chlorotoluene	<17		88	17	ug/Kg	☼	01/03/14 10:20	01/08/14 19:12	50
Benzene	<6.6		22	6.6	ug/Kg	☼	01/03/14 10:20	01/08/14 19:12	50
Bromobenzene	<38		180	38	ug/Kg	☼	01/03/14 10:20	01/08/14 19:12	50
Bromochloromethane	<33		180	33	ug/Kg	☼	01/03/14 10:20	01/08/14 19:12	50
Bromodichloromethane	<30		180	30	ug/Kg	☼	01/03/14 10:20	01/08/14 19:12	50
Bromoform	<39		180	39	ug/Kg	☼	01/03/14 10:20	01/08/14 19:12	50
Bromomethane	<60		180	60	ug/Kg	☼	01/03/14 10:20	01/08/14 19:12	50
Carbon tetrachloride	<23		88	23	ug/Kg	☼	01/03/14 10:20	01/08/14 19:12	50
Chlorobenzene	<13		88	13	ug/Kg	☼	01/03/14 10:20	01/08/14 19:12	50
Chloroethane	<38		180	38	ug/Kg	☼	01/03/14 10:20	01/08/14 19:12	50
Chloroform	<18		88	18	ug/Kg	☼	01/03/14 10:20	01/08/14 19:12	50
Chloromethane	<41		180	41	ug/Kg	☼	01/03/14 10:20	01/08/14 19:12	50
cis-1,2-Dichloroethene	<11		88	11	ug/Kg	☼	01/03/14 10:20	01/08/14 19:12	50
cis-1,3-Dichloropropene	<16		88	16	ug/Kg	☼	01/03/14 10:20	01/08/14 19:12	50
Dibromochloromethane	<31		180	31	ug/Kg	☼	01/03/14 10:20	01/08/14 19:12	50
Dibromomethane	<42		180	42	ug/Kg	☼	01/03/14 10:20	01/08/14 19:12	50
Dichlorodifluoromethane	<45		180	45	ug/Kg	☼	01/03/14 10:20	01/08/14 19:12	50
Ethylbenzene	<11		22	11	ug/Kg	☼	01/03/14 10:20	01/08/14 19:12	50
Hexachlorobutadiene	<31		180	31	ug/Kg	☼	01/03/14 10:20	01/08/14 19:12	50
Isopropyl ether	<13		180	13	ug/Kg	☼	01/03/14 10:20	01/08/14 19:12	50
Isopropylbenzene	<22		180	22	ug/Kg	☼	01/03/14 10:20	01/08/14 19:12	50
Methyl tert-butyl ether	<38		180	38	ug/Kg	☼	01/03/14 10:20	01/08/14 19:12	50
Methylene Chloride	<60		440	60	ug/Kg	☼	01/03/14 10:20	01/08/14 19:12	50
Naphthalene	<44		180	44	ug/Kg	☼	01/03/14 10:20	01/08/14 19:12	50
n-Butylbenzene	<11		88	11	ug/Kg	☼	01/03/14 10:20	01/08/14 19:12	50
N-Propylbenzene	<15		180	15	ug/Kg	☼	01/03/14 10:20	01/08/14 19:12	50
p-Isopropyltoluene	<16		180	16	ug/Kg	☼	01/03/14 10:20	01/08/14 19:12	50
sec-Butylbenzene	<14		88	14	ug/Kg	☼	01/03/14 10:20	01/08/14 19:12	50
Styrene	<8.7		88	8.7	ug/Kg	☼	01/03/14 10:20	01/08/14 19:12	50
tert-Butylbenzene	<12		88	12	ug/Kg	☼	01/03/14 10:20	01/08/14 19:12	50
Tetrachloroethene	<15		88	15	ug/Kg	☼	01/03/14 10:20	01/08/14 19:12	50

Client Sample ID: B-184 (18.5-20.5)
Date Collected: 01/03/14 10:20
Date Received: 01/07/14 10:10

Lab Sample ID: 500-69634-5
Matrix: Solid
Percent Solids: 92.4

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	<10		22	10	ug/Kg	☼	01/03/14 10:20	01/08/14 19:12	50
trans-1,2-Dichloroethene	<22		88	22	ug/Kg	☼	01/03/14 10:20	01/08/14 19:12	50
trans-1,3-Dichloropropene	<18		88	18	ug/Kg	☼	01/03/14 10:20	01/08/14 19:12	50
Trichloroethene	<16		44	16	ug/Kg	☼	01/03/14 10:20	01/08/14 19:12	50
Trichlorofluoromethane	<37		180	37	ug/Kg	☼	01/03/14 10:20	01/08/14 19:12	50
Vinyl chloride	<9.2		22	9.2	ug/Kg	☼	01/03/14 10:20	01/08/14 19:12	50
Xylenes, Total	<6.0		44	6.0	ug/Kg	☼	01/03/14 10:20	01/08/14 19:12	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*75 - 125*	*01/03/14 10:20*	*01/08/14 19:12*	*50*
4-Bromofluorobenzene (Surr)	*106*		*75 - 120*	*01/03/14 10:20*	*01/08/14 19:12*	*50*
Dibromofluoromethane	*83*		*75 - 120*	*01/03/14 10:20*	*01/08/14 19:12*	*50*
Toluene-d8 (Surr)	*97*		*75 - 120*	*01/03/14 10:20*	*01/08/14 19:12*	*50*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<6.2		18	6.2	ug/Kg	☼	01/08/14 07:03	01/10/14 10:08	1
PCB-1221	<7.7		18	7.7	ug/Kg	☼	01/08/14 07:03	01/10/14 10:08	1
PCB-1232	<7.6		18	7.6	ug/Kg	☼	01/08/14 07:03	01/10/14 10:08	1
PCB-1242	**24**		18	5.7	ug/Kg	☼	01/08/14 07:03	01/10/14 10:08	1
PCB-1248	<6.9		18	6.9	ug/Kg	☼	01/08/14 07:03	01/10/14 10:08	1
PCB-1254	<3.8		18	3.8	ug/Kg	☼	01/08/14 07:03	01/10/14 10:08	1
PCB-1260	<8.6		18	8.6	ug/Kg	☼	01/08/14 07:03	01/10/14 10:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*64*		*50 - 116*	*01/08/14 07:03*	*01/10/14 10:08*	*1*
DCB Decachlorobiphenyl	*90*		*48 - 142*	*01/08/14 07:03*	*01/10/14 10:08*	*1*

Client Sample ID: B-177 (2-4)
Date Collected: 01/03/14 09:45
Date Received: 01/07/14 10:10

Lab Sample ID: 500-69634-6
Matrix: Solid
Percent Solids: 82.3

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<43		250	43	ug/Kg	☼	01/03/14 09:45	01/08/14 19:37	50
1,1,1-Trichloroethane	<25		120	25	ug/Kg	☼	01/03/14 09:45	01/08/14 19:37	50
1,1,2,2-Tetrachloroethane	<29		120	29	ug/Kg	☼	01/03/14 09:45	01/08/14 19:37	50
1,1,2-Trichloroethane	<35		120	35	ug/Kg	☼	01/03/14 09:45	01/08/14 19:37	50
1,1-Dichloroethane	<23		120	23	ug/Kg	☼	01/03/14 09:45	01/08/14 19:37	50
1,1-Dichloroethene	<38		120	38	ug/Kg	☼	01/03/14 09:45	01/08/14 19:37	50
1,1-Dichloropropene	<43		120	43	ug/Kg	☼	01/03/14 09:45	01/08/14 19:37	50
1,2,3-Trichlorobenzene	<44		250	44	ug/Kg	☼	01/03/14 09:45	01/08/14 19:37	50
1,2,3-Trichloropropane	<71		250	71	ug/Kg	☼	01/03/14 09:45	01/08/14 19:37	50
1,2,4-Trichlorobenzene	<47		250	47	ug/Kg	☼	01/03/14 09:45	01/08/14 19:37	50
1,2,4-Trimethylbenzene	<26		250	26	ug/Kg	☼	01/03/14 09:45	01/08/14 19:37	50
1,2-Dibromo-3-Chloropropane	<110		250	110	ug/Kg	☼	01/03/14 09:45	01/08/14 19:37	50
1,2-Dibromoethane	<39		250	39	ug/Kg	☼	01/03/14 09:45	01/08/14 19:37	50
1,2-Dichlorobenzene	<25		250	25	ug/Kg	☼	01/03/14 09:45	01/08/14 19:37	50
1,2-Dichloroethane	<35		120	35	ug/Kg	☼	01/03/14 09:45	01/08/14 19:37	50
1,2-Dichloropropane	<24		120	24	ug/Kg	☼	01/03/14 09:45	01/08/14 19:37	50

Client: ARCADIS U.S., Inc.
Project/Site: MadisonKipp

TestAmerica Job ID: 500-69634-1

Client Sample ID: B-177 (2-4)
Date Collected: 01/03/14 09:45
Date Received: 01/07/14 10:10

Lab Sample ID: 500-69634-6
Matrix: Solid
Percent Solids: 82.3

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3,5-Trimethylbenzene	<26		250	26	ug/Kg	☼	01/03/14 09:45	01/08/14 19:37	50
1,3-Dichlorobenzene	<32		250	32	ug/Kg	☼	01/03/14 09:45	01/08/14 19:37	50
1,3-Dichloropropane	<17		120	17	ug/Kg	☼	01/03/14 09:45	01/08/14 19:37	50
1,4-Dichlorobenzene	<22		250	22	ug/Kg	☼	01/03/14 09:45	01/08/14 19:37	50
2,2-Dichloropropane	<39		120	39	ug/Kg	☼	01/03/14 09:45	01/08/14 19:37	50
2-Chlorotoluene	<26		120	26	ug/Kg	☼	01/03/14 09:45	01/08/14 19:37	50
4-Chlorotoluene	<24		120	24	ug/Kg	☼	01/03/14 09:45	01/08/14 19:37	50
Benzene	<9.2		31	9.2	ug/Kg	☼	01/03/14 09:45	01/08/14 19:37	50
Bromobenzene	<53		250	53	ug/Kg	☼	01/03/14 09:45	01/08/14 19:37	50
Bromochloromethane	<47		250	47	ug/Kg	☼	01/03/14 09:45	01/08/14 19:37	50
Bromodichloromethane	<42		250	42	ug/Kg	☼	01/03/14 09:45	01/08/14 19:37	50
Bromoform	<55		250	55	ug/Kg	☼	01/03/14 09:45	01/08/14 19:37	50
Bromomethane	<85		250	85	ug/Kg	☼	01/03/14 09:45	01/08/14 19:37	50
Carbon tetrachloride	<32		120	32	ug/Kg	☼	01/03/14 09:45	01/08/14 19:37	50
Chlorobenzene	<18		120	18	ug/Kg	☼	01/03/14 09:45	01/08/14 19:37	50
Chloroethane	<54		250	54	ug/Kg	☼	01/03/14 09:45	01/08/14 19:37	50
Chloroform	<25		120	25	ug/Kg	☼	01/03/14 09:45	01/08/14 19:37	50
Chloromethane	<57		250	57	ug/Kg	☼	01/03/14 09:45	01/08/14 19:37	50
cis-1,2-Dichloroethene	<15		120	15	ug/Kg	☼	01/03/14 09:45	01/08/14 19:37	50
cis-1,3-Dichloropropene	<22		120	22	ug/Kg	☼	01/03/14 09:45	01/08/14 19:37	50
Dibromochloromethane	<43		250	43	ug/Kg	☼	01/03/14 09:45	01/08/14 19:37	50
Dibromomethane	<60		250	60	ug/Kg	☼	01/03/14 09:45	01/08/14 19:37	50
Dichlorodifluoromethane	<64		250	64	ug/Kg	☼	01/03/14 09:45	01/08/14 19:37	50
Ethylbenzene	<16		31	16	ug/Kg	☼	01/03/14 09:45	01/08/14 19:37	50
Hexachlorobutadiene	<43		250	43	ug/Kg	☼	01/03/14 09:45	01/08/14 19:37	50
Isopropyl ether	<18		250	18	ug/Kg	☼	01/03/14 09:45	01/08/14 19:37	50
Isopropylbenzene	<31		250	31	ug/Kg	☼	01/03/14 09:45	01/08/14 19:37	50
Methyl tert-butyl ether	<53		250	53	ug/Kg	☼	01/03/14 09:45	01/08/14 19:37	50
Methylene Chloride	<85		620	85	ug/Kg	☼	01/03/14 09:45	01/08/14 19:37	50
Naphthalene	<61		250	61	ug/Kg	☼	01/03/14 09:45	01/08/14 19:37	50
n-Butylbenzene	<16		120	16	ug/Kg	☼	01/03/14 09:45	01/08/14 19:37	50
N-Propylbenzene	<22		250	22	ug/Kg	☼	01/03/14 09:45	01/08/14 19:37	50
p-Isopropyltoluene	<23		250	23	ug/Kg	☼	01/03/14 09:45	01/08/14 19:37	50
sec-Butylbenzene	<19		120	19	ug/Kg	☼	01/03/14 09:45	01/08/14 19:37	50
Styrene	<12		120	12	ug/Kg	☼	01/03/14 09:45	01/08/14 19:37	50
tert-Butylbenzene	<17		120	17	ug/Kg	☼	01/03/14 09:45	01/08/14 19:37	50
Tetrachloroethene	<21		120	21	ug/Kg	☼	01/03/14 09:45	01/08/14 19:37	50
Toluene	<14		31	14	ug/Kg	☼	01/03/14 09:45	01/08/14 19:37	50
trans-1,2-Dichloroethene	<31		120	31	ug/Kg	☼	01/03/14 09:45	01/08/14 19:37	50
trans-1,3-Dichloropropene	<26		120	26	ug/Kg	☼	01/03/14 09:45	01/08/14 19:37	50
Trichloroethene	<23		62	23	ug/Kg	☼	01/03/14 09:45	01/08/14 19:37	50
Trichlorofluoromethane	<52		250	52	ug/Kg	☼	01/03/14 09:45	01/08/14 19:37	50
Vinyl chloride	<13		31	13	ug/Kg	☼	01/03/14 09:45	01/08/14 19:37	50
Xylenes, Total	<8.5		62	8.5	ug/Kg	☼	01/03/14 09:45	01/08/14 19:37	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*99*		*75 - 125*	*01/03/14 09:45*	*01/08/14 19:37*	*50*
4-Bromofluorobenzene (Surr)	*108*		*75 - 120*	*01/03/14 09:45*	*01/08/14 19:37*	*50*
Dibromofluoromethane	*85*		*75 - 120*	*01/03/14 09:45*	*01/08/14 19:37*	*50*
Toluene-d8 (Surr)	*95*		*75 - 120*	*01/03/14 09:45*	*01/08/14 19:37*	*50*

Client: ARCADIS U.S., Inc.
Project/Site: MadisonKipp

TestAmerica Job ID: 500-69634-1

Client Sample ID: B-177 (2-4)

Lab Sample ID: 500-69634-6

Date Collected: 01/03/14 09:45
Matrix: Solid
Date Received: 01/07/14 10:10
Percent Solids: 82.3

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<7.0		20	7.0	ug/Kg	☼	01/08/14 07:03	01/10/14 10:22	1
PCB-1221	<8.7		20	8.7	ug/Kg	☼	01/08/14 07:03	01/10/14 10:22	1
PCB-1232	<8.6		20	8.6	ug/Kg	☼	01/08/14 07:03	01/10/14 10:22	1
PCB-1242	**19**	**J**	20	6.5	ug/Kg	☼	01/08/14 07:03	01/10/14 10:22	1
PCB-1248	<7.8		20	7.8	ug/Kg	☼	01/08/14 07:03	01/10/14 10:22	1
PCB-1254	<4.3		20	4.3	ug/Kg	☼	01/08/14 07:03	01/10/14 10:22	1
PCB-1260	<9.7		20	9.7	ug/Kg	☼	01/08/14 07:03	01/10/14 10:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*61*		*50 - 116*	*01/08/14 07:03*	*01/10/14 10:22*	*1*
DCB Decachlorobiphenyl	*87*		*48 - 142*	*01/08/14 07:03*	*01/10/14 10:22*	*1*

Client Sample ID: B-183 (1.7-3.7)

Lab Sample ID: 500-69634-7

Date Collected: 01/03/14 10:30
Matrix: Solid
Date Received: 01/07/14 10:10
Percent Solids: 84.6

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<38		220	38	ug/Kg	☼	01/03/14 10:30	01/08/14 23:47	50
1,1,1-Trichloroethane	<22		110	22	ug/Kg	☼	01/03/14 10:30	01/08/14 23:47	50
1,1,2,2-Tetrachloroethane	<26		110	26	ug/Kg	☼	01/03/14 10:30	01/08/14 23:47	50
1,1,2-Trichloroethane	<31		110	31	ug/Kg	☼	01/03/14 10:30	01/08/14 23:47	50
1,1-Dichloroethane	<21		110	21	ug/Kg	☼	01/03/14 10:30	01/08/14 23:47	50
1,1-Dichloroethene	<34		110	34	ug/Kg	☼	01/03/14 10:30	01/08/14 23:47	50
1,1-Dichloropropene	<38		110	38	ug/Kg	☼	01/03/14 10:30	01/08/14 23:47	50
1,2,3-Trichlorobenzene	<39		220	39	ug/Kg	☼	01/03/14 10:30	01/08/14 23:47	50
1,2,3-Trichloropropane	<64		220	64	ug/Kg	☼	01/03/14 10:30	01/08/14 23:47	50
1,2,4-Trichlorobenzene	<42		220	42	ug/Kg	☼	01/03/14 10:30	01/08/14 23:47	50
1,2,4-Trimethylbenzene	<23		220	23	ug/Kg	☼	01/03/14 10:30	01/08/14 23:47	50
1,2-Dibromo-3-Chloropropane	<97		220	97	ug/Kg	☼	01/03/14 10:30	01/08/14 23:47	50
1,2-Dibromoethane	<35		220	35	ug/Kg	☼	01/03/14 10:30	01/08/14 23:47	50
1,2-Dichlorobenzene	<23		220	23	ug/Kg	☼	01/03/14 10:30	01/08/14 23:47	50
1,2-Dichloroethane	<32		110	32	ug/Kg	☼	01/03/14 10:30	01/08/14 23:47	50
1,2-Dichloropropane	<22		110	22	ug/Kg	☼	01/03/14 10:30	01/08/14 23:47	50
1,3,5-Trimethylbenzene	<23		220	23	ug/Kg	☼	01/03/14 10:30	01/08/14 23:47	50
1,3-Dichlorobenzene	<29		220	29	ug/Kg	☼	01/03/14 10:30	01/08/14 23:47	50
1,3-Dichloropropane	<15		110	15	ug/Kg	☼	01/03/14 10:30	01/08/14 23:47	50
1,4-Dichlorobenzene	<19		220	19	ug/Kg	☼	01/03/14 10:30	01/08/14 23:47	50
2,2-Dichloropropane	<35		110	35	ug/Kg	☼	01/03/14 10:30	01/08/14 23:47	50
2-Chlorotoluene	<23		110	23	ug/Kg	☼	01/03/14 10:30	01/08/14 23:47	50
4-Chlorotoluene	<22		110	22	ug/Kg	☼	01/03/14 10:30	01/08/14 23:47	50
Benzene	<8.2		28	8.2	ug/Kg	☼	01/03/14 10:30	01/08/14 23:47	50
Bromobenzene	<47		220	47	ug/Kg	☼	01/03/14 10:30	01/08/14 23:47	50
Bromochloromethane	<42		220	42	ug/Kg	☼	01/03/14 10:30	01/08/14 23:47	50
Bromodichloromethane	<38		220	38	ug/Kg	☼	01/03/14 10:30	01/08/14 23:47	50
Bromoform	<49		220	49	ug/Kg	☼	01/03/14 10:30	01/08/14 23:47	50
Bromomethane	<76		220	76	ug/Kg	☼	01/03/14 10:30	01/08/14 23:47	50
Carbon tetrachloride	<29		110	29	ug/Kg	☼	01/03/14 10:30	01/08/14 23:47	50
Chlorobenzene	<16		110	16	ug/Kg	☼	01/03/14 10:30	01/08/14 23:47	50
Chloroethane	<48		220	48	ug/Kg	☼	01/03/14 10:30	01/08/14 23:47	50

Client: ARCADIS U.S., Inc.
Project/Site: MadisonKipp

TestAmerica Job ID: 500-69634-1

Client Sample ID: B-183 (1.7-3.7)
Date Collected: 01/03/14 10:30
Date Received: 01/07/14 10:10

Lab Sample ID: 500-69634-7
Matrix: Solid
Percent Solids: 84.6

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroform	<23		110	23	ug/Kg	☼	01/03/14 10:30	01/08/14 23:47	50
Chloromethane	<51		220	51	ug/Kg	☼	01/03/14 10:30	01/08/14 23:47	50
cis-1,2-Dichloroethene	<14		110	14	ug/Kg	☼	01/03/14 10:30	01/08/14 23:47	50
cis-1,3-Dichloropropene	<20		110	20	ug/Kg	☼	01/03/14 10:30	01/08/14 23:47	50
Dibromochloromethane	<38		220	38	ug/Kg	☼	01/03/14 10:30	01/08/14 23:47	50
Dibromomethane	<53		220	53	ug/Kg	☼	01/03/14 10:30	01/08/14 23:47	50
Dichlorodifluoromethane	<57	*	220	57	ug/Kg	☼	01/03/14 10:30	01/08/14 23:47	50
Ethylbenzene	<14		28	14	ug/Kg	☼	01/03/14 10:30	01/08/14 23:47	50
Hexachlorobutadiene	<38		220	38	ug/Kg	☼	01/03/14 10:30	01/08/14 23:47	50
Isopropyl ether	<16		220	16	ug/Kg	☼	01/03/14 10:30	01/08/14 23:47	50
Isopropylbenzene	<28		220	28	ug/Kg	☼	01/03/14 10:30	01/08/14 23:47	50
Methyl tert-butyl ether	<48		220	48	ug/Kg	☼	01/03/14 10:30	01/08/14 23:47	50
Methylene Chloride	<76		560	76	ug/Kg	☼	01/03/14 10:30	01/08/14 23:47	50
Naphthalene	<55		220	55	ug/Kg	☼	01/03/14 10:30	01/08/14 23:47	50
n-Butylbenzene	<14		110	14	ug/Kg	☼	01/03/14 10:30	01/08/14 23:47	50
N-Propylbenzene	<19		220	19	ug/Kg	☼	01/03/14 10:30	01/08/14 23:47	50
p-Isopropyltoluene	<21		220	21	ug/Kg	☼	01/03/14 10:30	01/08/14 23:47	50
sec-Butylbenzene	<17		110	17	ug/Kg	☼	01/03/14 10:30	01/08/14 23:47	50
Styrene	<11		110	11	ug/Kg	☼	01/03/14 10:30	01/08/14 23:47	50
tert-Butylbenzene	<15		110	15	ug/Kg	☼	01/03/14 10:30	01/08/14 23:47	50
Tetrachloroethene	<19		110	19	ug/Kg	☼	01/03/14 10:30	01/08/14 23:47	50
Toluene	<13		28	13	ug/Kg	☼	01/03/14 10:30	01/08/14 23:47	50
trans-1,2-Dichloroethene	<28		110	28	ug/Kg	☼	01/03/14 10:30	01/08/14 23:47	50
trans-1,3-Dichloropropene	<23		110	23	ug/Kg	☼	01/03/14 10:30	01/08/14 23:47	50
Trichloroethene	<21		56	21	ug/Kg	☼	01/03/14 10:30	01/08/14 23:47	50
Trichlorofluoromethane	<46		220	46	ug/Kg	☼	01/03/14 10:30	01/08/14 23:47	50
Vinyl chloride	<12		28	12	ug/Kg	☼	01/03/14 10:30	01/08/14 23:47	50
Xylenes, Total	<7.6		56	7.6	ug/Kg	☼	01/03/14 10:30	01/08/14 23:47	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*94*		*75 - 125*	*01/03/14 10:30*	*01/08/14 23:47*	*50*
4-Bromofluorobenzene (Surr)	*107*		*75 - 120*	*01/03/14 10:30*	*01/08/14 23:47*	*50*
Dibromofluoromethane	*82*		*75 - 120*	*01/03/14 10:30*	*01/08/14 23:47*	*50*
Toluene-d8 (Surr)	*96*		*75 - 120*	*01/03/14 10:30*	*01/08/14 23:47*	*50*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<6.8		19	6.8	ug/Kg	☼	01/08/14 07:03	01/10/14 10:51	1
PCB-1221	<8.5		19	8.5	ug/Kg	☼	01/08/14 07:03	01/10/14 10:51	1
PCB-1232	<8.4		19	8.4	ug/Kg	☼	01/08/14 07:03	01/10/14 10:51	1
PCB-1242	**48**		19	6.3	ug/Kg	☼	01/08/14 07:03	01/10/14 10:51	1
PCB-1248	<7.6		19	7.6	ug/Kg	☼	01/08/14 07:03	01/10/14 10:51	1
PCB-1254	<4.1		19	4.1	ug/Kg	☼	01/08/14 07:03	01/10/14 10:51	1
PCB-1260	<9.4		19	9.4	ug/Kg	☼	01/08/14 07:03	01/10/14 10:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*65*		*50 - 116*	*01/08/14 07:03*	*01/10/14 10:51*	*1*
DCB Decachlorobiphenyl	*94*		*48 - 142*	*01/08/14 07:03*	*01/10/14 10:51*	*1*

Client: ARCADIS U.S., Inc.
Project/Site: MadisonKipp

TestAmerica Job ID: 500-69634-1

Client Sample ID: B-183 (8-10)
Date Collected: 01/03/14 11:15
Date Received: 01/07/14 10:10

Lab Sample ID: 500-69634-8
Matrix: Solid
Percent Solids: 96.3

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<35		200	35	ug/Kg	☼	01/03/14 11:15	01/09/14 00:12	50
1,1,1-Trichloroethane	<20		100	20	ug/Kg	☼	01/03/14 11:15	01/09/14 00:12	50
1,1,2,2-Tetrachloroethane	<23		100	23	ug/Kg	☼	01/03/14 11:15	01/09/14 00:12	50
1,1,2-Trichloroethane	<28		100	28	ug/Kg	☼	01/03/14 11:15	01/09/14 00:12	50
1,1-Dichloroethane	<18		100	18	ug/Kg	☼	01/03/14 11:15	01/09/14 00:12	50
1,1-Dichloroethene	<31		100	31	ug/Kg	☼	01/03/14 11:15	01/09/14 00:12	50
1,1-Dichloropropene	<34		100	34	ug/Kg	☼	01/03/14 11:15	01/09/14 00:12	50
1,2,3-Trichlorobenzene	<35		200	35	ug/Kg	☼	01/03/14 11:15	01/09/14 00:12	50
1,2,3-Trichloropropane	<57		200	57	ug/Kg	☼	01/03/14 11:15	01/09/14 00:12	50
1,2,4-Trichlorobenzene	<38		200	38	ug/Kg	☼	01/03/14 11:15	01/09/14 00:12	50
1,2,4-Trimethylbenzene	<21		200	21	ug/Kg	☼	01/03/14 11:15	01/09/14 00:12	50
1,2-Dibromo-3-Chloropropane	<87		200	87	ug/Kg	☼	01/03/14 11:15	01/09/14 00:12	50
1,2-Dibromoethane	<31		200	31	ug/Kg	☼	01/03/14 11:15	01/09/14 00:12	50
1,2-Dichlorobenzene	<20		200	20	ug/Kg	☼	01/03/14 11:15	01/09/14 00:12	50
1,2-Dichloroethane	<28		100	28	ug/Kg	☼	01/03/14 11:15	01/09/14 00:12	50
1,2-Dichloropropane	<20		100	20	ug/Kg	☼	01/03/14 11:15	01/09/14 00:12	50
1,3,5-Trimethylbenzene	<21		200	21	ug/Kg	☼	01/03/14 11:15	01/09/14 00:12	50
1,3-Dichlorobenzene	<26		200	26	ug/Kg	☼	01/03/14 11:15	01/09/14 00:12	50
1,3-Dichloropropane	<13		100	13	ug/Kg	☼	01/03/14 11:15	01/09/14 00:12	50
1,4-Dichlorobenzene	<17		200	17	ug/Kg	☼	01/03/14 11:15	01/09/14 00:12	50
2,2-Dichloropropane	<32		100	32	ug/Kg	☼	01/03/14 11:15	01/09/14 00:12	50
2-Chlorotoluene	<21		100	21	ug/Kg	☼	01/03/14 11:15	01/09/14 00:12	50
4-Chlorotoluene	<20		100	20	ug/Kg	☼	01/03/14 11:15	01/09/14 00:12	50
Benzene	<7.4		25	7.4	ug/Kg	☼	01/03/14 11:15	01/09/14 00:12	50
Bromobenzene	<42		200	42	ug/Kg	☼	01/03/14 11:15	01/09/14 00:12	50
Bromochloromethane	<38		200	38	ug/Kg	☼	01/03/14 11:15	01/09/14 00:12	50
Bromodichloromethane	<34		200	34	ug/Kg	☼	01/03/14 11:15	01/09/14 00:12	50
Bromoform	<44		200	44	ug/Kg	☼	01/03/14 11:15	01/09/14 00:12	50
Bromomethane	<68		200	68	ug/Kg	☼	01/03/14 11:15	01/09/14 00:12	50
Carbon tetrachloride	<26		100	26	ug/Kg	☼	01/03/14 11:15	01/09/14 00:12	50
Chlorobenzene	<14		100	14	ug/Kg	☼	01/03/14 11:15	01/09/14 00:12	50
Chloroethane	<43		200	43	ug/Kg	☼	01/03/14 11:15	01/09/14 00:12	50
Chloroform	<20		100	20	ug/Kg	☼	01/03/14 11:15	01/09/14 00:12	50
Chloromethane	<46		200	46	ug/Kg	☼	01/03/14 11:15	01/09/14 00:12	50
cis-1,2-Dichloroethene	<12		100	12	ug/Kg	☼	01/03/14 11:15	01/09/14 00:12	50
cis-1,3-Dichloropropene	<18		100	18	ug/Kg	☼	01/03/14 11:15	01/09/14 00:12	50
Dibromochloromethane	<35		200	35	ug/Kg	☼	01/03/14 11:15	01/09/14 00:12	50
Dibromomethane	<48		200	48	ug/Kg	☼	01/03/14 11:15	01/09/14 00:12	50
Dichlorodifluoromethane	<51	*	200	51	ug/Kg	☼	01/03/14 11:15	01/09/14 00:12	50
Ethylbenzene	<13		25	13	ug/Kg	☼	01/03/14 11:15	01/09/14 00:12	50
Hexachlorobutadiene	<35		200	35	ug/Kg	☼	01/03/14 11:15	01/09/14 00:12	50
Isopropyl ether	<15		200	15	ug/Kg	☼	01/03/14 11:15	01/09/14 00:12	50
Isopropylbenzene	<25		200	25	ug/Kg	☼	01/03/14 11:15	01/09/14 00:12	50
Methyl tert-butyl ether	<43		200	43	ug/Kg	☼	01/03/14 11:15	01/09/14 00:12	50
Methylene Chloride	<68		500	68	ug/Kg	☼	01/03/14 11:15	01/09/14 00:12	50
Naphthalene	<49		200	49	ug/Kg	☼	01/03/14 11:15	01/09/14 00:12	50
n-Butylbenzene	<13		100	13	ug/Kg	☼	01/03/14 11:15	01/09/14 00:12	50
N-Propylbenzene	<17		200	17	ug/Kg	☼	01/03/14 11:15	01/09/14 00:12	50
p-Isopropyltoluene	<18		200	18	ug/Kg	☼	01/03/14 11:15	01/09/14 00:12	50

Client: ARCADIS U.S., Inc.
Project/Site: MadisonKipp

TestAmerica Job ID: 500-69634-1

Client Sample ID: B-183 (8-10)

Lab Sample ID: 500-69634-8
Date Collected: 01/03/14 11:15
Matrix: Solid
Date Received: 01/07/14 10:10
Percent Solids: 96.3

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	<15		100	15	ug/Kg	☼	01/03/14 11:15	01/09/14 00:12	50
Styrene	<9.9		100	9.9	ug/Kg	☼	01/03/14 11:15	01/09/14 00:12	50
tert-Butylbenzene	<14		100	14	ug/Kg	☼	01/03/14 11:15	01/09/14 00:12	50
Tetrachloroethene	<17		100	17	ug/Kg	☼	01/03/14 11:15	01/09/14 00:12	50
Toluene	<11		25	11	ug/Kg	☼	01/03/14 11:15	01/09/14 00:12	50
trans-1,2-Dichloroethene	<25		100	25	ug/Kg	☼	01/03/14 11:15	01/09/14 00:12	50
trans-1,3-Dichloropropene	<21		100	21	ug/Kg	☼	01/03/14 11:15	01/09/14 00:12	50
Trichloroethene	<19		50	19	ug/Kg	☼	01/03/14 11:15	01/09/14 00:12	50
Trichlorofluoromethane	<41		200	41	ug/Kg	☼	01/03/14 11:15	01/09/14 00:12	50
Vinyl chloride	<10		25	10	ug/Kg	☼	01/03/14 11:15	01/09/14 00:12	50
Xylenes, Total	<6.8		50	6.8	ug/Kg	☼	01/03/14 11:15	01/09/14 00:12	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*94*		*75 - 125*	*01/03/14 11:15*	*01/09/14 00:12*	*50*
4-Bromofluorobenzene (Surr)	*110*		*75 - 120*	*01/03/14 11:15*	*01/09/14 00:12*	*50*
Dibromofluoromethane	*81*		*75 - 120*	*01/03/14 11:15*	*01/09/14 00:12*	*50*
Toluene-d8 (Surr)	*97*		*75 - 120*	*01/03/14 11:15*	*01/09/14 00:12*	*50*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<5.9		17	5.9	ug/Kg	☼	01/08/14 07:03	01/10/14 11:05	1
PCB-1221	<7.3		17	7.3	ug/Kg	☼	01/08/14 07:03	01/10/14 11:05	1
PCB-1232	<7.2		17	7.2	ug/Kg	☼	01/08/14 07:03	01/10/14 11:05	1
PCB-1242	**14**	**J**	17	5.5	ug/Kg	☼	01/08/14 07:03	01/10/14 11:05	1
PCB-1248	<6.5		17	6.5	ug/Kg	☼	01/08/14 07:03	01/10/14 11:05	1
PCB-1254	<3.6		17	3.6	ug/Kg	☼	01/08/14 07:03	01/10/14 11:05	1
PCB-1260	<8.2		17	8.2	ug/Kg	☼	01/08/14 07:03	01/10/14 11:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*74*		*50 - 116*	*01/08/14 07:03*	*01/10/14 11:05*	*1*
DCB Decachlorobiphenyl	*88*		*48 - 142*	*01/08/14 07:03*	*01/10/14 11:05*	*1*

Client Sample ID: B-183 (17.3-19.3)

Lab Sample ID: 500-69634-9
Date Collected: 01/03/14 11:20
Matrix: Solid
Date Received: 01/07/14 10:10
Percent Solids: 93.6

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<30		180	30	ug/Kg	☼	01/03/14 11:20	01/09/14 00:36	50
1,1,1-Trichloroethane	<18		88	18	ug/Kg	☼	01/03/14 11:20	01/09/14 00:36	50
1,1,2,2-Tetrachloroethane	<21		88	21	ug/Kg	☼	01/03/14 11:20	01/09/14 00:36	50
1,1,2-Trichloroethane	<25		88	25	ug/Kg	☼	01/03/14 11:20	01/09/14 00:36	50
1,1-Dichloroethane	<16		88	16	ug/Kg	☼	01/03/14 11:20	01/09/14 00:36	50
1,1-Dichloroethene	<27		88	27	ug/Kg	☼	01/03/14 11:20	01/09/14 00:36	50
1,1-Dichloropropene	<30		88	30	ug/Kg	☼	01/03/14 11:20	01/09/14 00:36	50
1,2,3-Trichlorobenzene	<31		180	31	ug/Kg	☼	01/03/14 11:20	01/09/14 00:36	50
1,2,3-Trichloropropane	<50		180	50	ug/Kg	☼	01/03/14 11:20	01/09/14 00:36	50
1,2,4-Trichlorobenzene	<33		180	33	ug/Kg	☼	01/03/14 11:20	01/09/14 00:36	50
1,2,4-Trimethylbenzene	<19		180	19	ug/Kg	☼	01/03/14 11:20	01/09/14 00:36	50
1,2-Dibromo-3-Chloropropane	<77		180	77	ug/Kg	☼	01/03/14 11:20	01/09/14 00:36	50

Client: ARCADIS U.S., Inc.
Project/Site: MadisonKipp

TestAmerica Job ID: 500-69634-1

Client Sample ID: B-183 (17.3-19.3)
Date Collected: 01/03/14 11:20
Date Received: 01/07/14 10:10

Lab Sample ID: 500-69634-9
Matrix: Solid
Percent Solids: 93.6

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane	<28		180	28	ug/Kg	☼	01/03/14 11:20	01/09/14 00:36	50
1,2-Dichlorobenzene	<18		180	18	ug/Kg	☼	01/03/14 11:20	01/09/14 00:36	50
1,2-Dichloroethane	<25		88	25	ug/Kg	☼	01/03/14 11:20	01/09/14 00:36	50
1,2-Dichloropropane	<17		88	17	ug/Kg	☼	01/03/14 11:20	01/09/14 00:36	50
1,3,5-Trimethylbenzene	<18		180	18	ug/Kg	☼	01/03/14 11:20	01/09/14 00:36	50
1,3-Dichlorobenzene	<23		180	23	ug/Kg	☼	01/03/14 11:20	01/09/14 00:36	50
1,3-Dichloropropane	<12		88	12	ug/Kg	☼	01/03/14 11:20	01/09/14 00:36	50
1,4-Dichlorobenzene	<15		180	15	ug/Kg	☼	01/03/14 11:20	01/09/14 00:36	50
2,2-Dichloropropane	<28		88	28	ug/Kg	☼	01/03/14 11:20	01/09/14 00:36	50
2-Chlorotoluene	<18		88	18	ug/Kg	☼	01/03/14 11:20	01/09/14 00:36	50
4-Chlorotoluene	<17		88	17	ug/Kg	☼	01/03/14 11:20	01/09/14 00:36	50
Benzene	<6.5		22	6.5	ug/Kg	☼	01/03/14 11:20	01/09/14 00:36	50
Bromobenzene	<37		180	37	ug/Kg	☼	01/03/14 11:20	01/09/14 00:36	50
Bromochloromethane	<33		180	33	ug/Kg	☼	01/03/14 11:20	01/09/14 00:36	50
Bromodichloromethane	<30		180	30	ug/Kg	☼	01/03/14 11:20	01/09/14 00:36	50
Bromoform	<39		180	39	ug/Kg	☼	01/03/14 11:20	01/09/14 00:36	50
Bromomethane	<60		180	60	ug/Kg	☼	01/03/14 11:20	01/09/14 00:36	50
Carbon tetrachloride	<23		88	23	ug/Kg	☼	01/03/14 11:20	01/09/14 00:36	50
Chlorobenzene	<13		88	13	ug/Kg	☼	01/03/14 11:20	01/09/14 00:36	50
Chloroethane	<38		180	38	ug/Kg	☼	01/03/14 11:20	01/09/14 00:36	50
Chloroform	<18		88	18	ug/Kg	☼	01/03/14 11:20	01/09/14 00:36	50
Chloromethane	<41		180	41	ug/Kg	☼	01/03/14 11:20	01/09/14 00:36	50
cis-1,2-Dichloroethene	<11		88	11	ug/Kg	☼	01/03/14 11:20	01/09/14 00:36	50
cis-1,3-Dichloropropene	<16		88	16	ug/Kg	☼	01/03/14 11:20	01/09/14 00:36	50
Dibromochloromethane	<30		180	30	ug/Kg	☼	01/03/14 11:20	01/09/14 00:36	50
Dibromomethane	<42		180	42	ug/Kg	☼	01/03/14 11:20	01/09/14 00:36	50
Dichlorodifluoromethane	<45	*	180	45	ug/Kg	☼	01/03/14 11:20	01/09/14 00:36	50
Ethylbenzene	<11		22	11	ug/Kg	☼	01/03/14 11:20	01/09/14 00:36	50
Hexachlorobutadiene	<30		180	30	ug/Kg	☼	01/03/14 11:20	01/09/14 00:36	50
Isopropyl ether	<13		180	13	ug/Kg	☼	01/03/14 11:20	01/09/14 00:36	50
Isopropylbenzene	<22		180	22	ug/Kg	☼	01/03/14 11:20	01/09/14 00:36	50
Methyl tert-butyl ether	<38		180	38	ug/Kg	☼	01/03/14 11:20	01/09/14 00:36	50
Methylene Chloride	<60		440	60	ug/Kg	☼	01/03/14 11:20	01/09/14 00:36	50
Naphthalene	<43		180	43	ug/Kg	☼	01/03/14 11:20	01/09/14 00:36	50
n-Butylbenzene	<11		88	11	ug/Kg	☼	01/03/14 11:20	01/09/14 00:36	50
N-Propylbenzene	<15		180	15	ug/Kg	☼	01/03/14 11:20	01/09/14 00:36	50
p-Isopropyltoluene	<16		180	16	ug/Kg	☼	01/03/14 11:20	01/09/14 00:36	50
sec-Butylbenzene	<14		88	14	ug/Kg	☼	01/03/14 11:20	01/09/14 00:36	50
Styrene	<8.7		88	8.7	ug/Kg	☼	01/03/14 11:20	01/09/14 00:36	50
tert-Butylbenzene	<12		88	12	ug/Kg	☼	01/03/14 11:20	01/09/14 00:36	50
Tetrachloroethene	<15		88	15	ug/Kg	☼	01/03/14 11:20	01/09/14 00:36	50
Toluene	<10		22	10	ug/Kg	☼	01/03/14 11:20	01/09/14 00:36	50
trans-1,2-Dichloroethene	<22		88	22	ug/Kg	☼	01/03/14 11:20	01/09/14 00:36	50
trans-1,3-Dichloropropene	<18		88	18	ug/Kg	☼	01/03/14 11:20	01/09/14 00:36	50
Trichloroethene	<16		44	16	ug/Kg	☼	01/03/14 11:20	01/09/14 00:36	50
Trichlorofluoromethane	<36		180	36	ug/Kg	☼	01/03/14 11:20	01/09/14 00:36	50
Vinyl chloride	<9.1		22	9.1	ug/Kg	☼	01/03/14 11:20	01/09/14 00:36	50
Xylenes, Total	<6.0		44	6.0	ug/Kg	☼	01/03/14 11:20	01/09/14 00:36	50

Client Sample ID: B-183 (17.3-19.3)

Lab Sample ID: 500-69634-9

Date Collected: 01/03/14 11:20

Matrix: Solid

Date Received: 01/07/14 10:10

Percent Solids: 93.6

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*96*		*75 - 125*	*01/03/14 11:20*	*01/09/14 00:36*	*50*
4-Bromofluorobenzene (Surr)	*107*		*75 - 120*	*01/03/14 11:20*	*01/09/14 00:36*	*50*
Dibromofluoromethane	*84*		*75 - 120*	*01/03/14 11:20*	*01/09/14 00:36*	*50*
Toluene-d8 (Surr)	*94*		*75 - 120*	*01/03/14 11:20*	*01/09/14 00:36*	*50*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<6.1		17	6.1	ug/Kg	☼	01/08/14 07:03	01/10/14 11:19	1
PCB-1221	<7.6		17	7.6	ug/Kg	☼	01/08/14 07:03	01/10/14 11:19	1
PCB-1232	<7.5		17	7.5	ug/Kg	☼	01/08/14 07:03	01/10/14 11:19	1
PCB-1242	**25**		17	5.6	ug/Kg	☼	01/08/14 07:03	01/10/14 11:19	1
PCB-1248	<6.8		17	6.8	ug/Kg	☼	01/08/14 07:03	01/10/14 11:19	1
PCB-1254	<3.7		17	3.7	ug/Kg	☼	01/08/14 07:03	01/10/14 11:19	1
PCB-1260	<8.4		17	8.4	ug/Kg	☼	01/08/14 07:03	01/10/14 11:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*59*		*50 - 116*	*01/08/14 07:03*	*01/10/14 11:19*	*1*
DCB Decachlorobiphenyl	*91*		*48 - 142*	*01/08/14 07:03*	*01/10/14 11:19*	*1*

Client Sample ID: B-187 (1.3-3.3)

Lab Sample ID: 500-69634-10

Date Collected: 01/03/14 11:40

Matrix: Solid

Date Received: 01/07/14 10:10

Percent Solids: 91.2

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<37		210	37	ug/Kg	☼	01/03/14 11:40	01/09/14 01:01	50
1,1,1-Trichloroethane	<21		110	21	ug/Kg	☼	01/03/14 11:40	01/09/14 01:01	50
1,1,2,2-Tetrachloroethane	<25		110	25	ug/Kg	☼	01/03/14 11:40	01/09/14 01:01	50
1,1,2-Trichloroethane	<29		110	29	ug/Kg	☼	01/03/14 11:40	01/09/14 01:01	50
1,1-Dichloroethane	<20		110	20	ug/Kg	☼	01/03/14 11:40	01/09/14 01:01	50
1,1-Dichloroethene	<32		110	32	ug/Kg	☼	01/03/14 11:40	01/09/14 01:01	50
1,1-Dichloropropene	<36		110	36	ug/Kg	☼	01/03/14 11:40	01/09/14 01:01	50
1,2,3-Trichlorobenzene	<37		210	37	ug/Kg	☼	01/03/14 11:40	01/09/14 01:01	50
1,2,3-Trichloropropane	<61		210	61	ug/Kg	☼	01/03/14 11:40	01/09/14 01:01	50
1,2,4-Trichlorobenzene	<40		210	40	ug/Kg	☼	01/03/14 11:40	01/09/14 01:01	50
1,2,4-Trimethylbenzene	<22		210	22	ug/Kg	☼	01/03/14 11:40	01/09/14 01:01	50
1,2-Dibromo-3-Chloropropane	<92		210	92	ug/Kg	☼	01/03/14 11:40	01/09/14 01:01	50
1,2-Dibromoethane	<33		210	33	ug/Kg	☼	01/03/14 11:40	01/09/14 01:01	50
1,2-Dichlorobenzene	<22		210	22	ug/Kg	☼	01/03/14 11:40	01/09/14 01:01	50
1,2-Dichloroethane	<30		110	30	ug/Kg	☼	01/03/14 11:40	01/09/14 01:01	50
1,2-Dichloropropane	<21		110	21	ug/Kg	☼	01/03/14 11:40	01/09/14 01:01	50
1,3,5-Trimethylbenzene	<22		210	22	ug/Kg	☼	01/03/14 11:40	01/09/14 01:01	50
1,3-Dichlorobenzene	<27		210	27	ug/Kg	☼	01/03/14 11:40	01/09/14 01:01	50
1,3-Dichloropropane	<14		110	14	ug/Kg	☼	01/03/14 11:40	01/09/14 01:01	50
1,4-Dichlorobenzene	<18		210	18	ug/Kg	☼	01/03/14 11:40	01/09/14 01:01	50
2,2-Dichloropropane	<33		110	33	ug/Kg	☼	01/03/14 11:40	01/09/14 01:01	50
2-Chlorotoluene	<22		110	22	ug/Kg	☼	01/03/14 11:40	01/09/14 01:01	50
4-Chlorotoluene	<21		110	21	ug/Kg	☼	01/03/14 11:40	01/09/14 01:01	50
Benzene	<7.8		26	7.8	ug/Kg	☼	01/03/14 11:40	01/09/14 01:01	50
Bromobenzene	<45		210	45	ug/Kg	☼	01/03/14 11:40	01/09/14 01:01	50
Bromochloromethane	<40		210	40	ug/Kg	☼	01/03/14 11:40	01/09/14 01:01	50

Client: ARCADIS U.S., Inc.
Project/Site: MadisonKipp

TestAmerica Job ID: 500-69634-1

Client Sample ID: B-187 (1.3-3.3)
Date Collected: 01/03/14 11:40
Date Received: 01/07/14 10:10

Lab Sample ID: 500-69634-10
Matrix: Solid
Percent Solids: 91.2

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromodichloromethane	<36		210	36	ug/Kg	☼	01/03/14 11:40	01/09/14 01:01	50
Bromoform	<47		210	47	ug/Kg	☼	01/03/14 11:40	01/09/14 01:01	50
Bromomethane	<72		210	72	ug/Kg	☼	01/03/14 11:40	01/09/14 01:01	50
Carbon tetrachloride	<27		110	27	ug/Kg	☼	01/03/14 11:40	01/09/14 01:01	50
Chlorobenzene	<15		110	15	ug/Kg	☼	01/03/14 11:40	01/09/14 01:01	50
Chloroethane	<46		210	46	ug/Kg	☼	01/03/14 11:40	01/09/14 01:01	50
Chloroform	<22		110	22	ug/Kg	☼	01/03/14 11:40	01/09/14 01:01	50
Chloromethane	<49		210	49	ug/Kg	☼	01/03/14 11:40	01/09/14 01:01	50
cis-1,2-Dichloroethene	<13		110	13	ug/Kg	☼	01/03/14 11:40	01/09/14 01:01	50
cis-1,3-Dichloropropene	<19		110	19	ug/Kg	☼	01/03/14 11:40	01/09/14 01:01	50
Dibromochloromethane	<37		210	37	ug/Kg	☼	01/03/14 11:40	01/09/14 01:01	50
Dibromomethane	<51		210	51	ug/Kg	☼	01/03/14 11:40	01/09/14 01:01	50
Dichlorodifluoromethane	<54	*	210	54	ug/Kg	☼	01/03/14 11:40	01/09/14 01:01	50
Ethylbenzene	<13		26	13	ug/Kg	☼	01/03/14 11:40	01/09/14 01:01	50
Hexachlorobutadiene	<37		210	37	ug/Kg	☼	01/03/14 11:40	01/09/14 01:01	50
Isopropyl ether	<16		210	16	ug/Kg	☼	01/03/14 11:40	01/09/14 01:01	50
Isopropylbenzene	<27		210	27	ug/Kg	☼	01/03/14 11:40	01/09/14 01:01	50
Methyl tert-butyl ether	<45		210	45	ug/Kg	☼	01/03/14 11:40	01/09/14 01:01	50
Methylene Chloride	<72		530	72	ug/Kg	☼	01/03/14 11:40	01/09/14 01:01	50
Naphthalene	<52		210	52	ug/Kg	☼	01/03/14 11:40	01/09/14 01:01	50
n-Butylbenzene	<14		110	14	ug/Kg	☼	01/03/14 11:40	01/09/14 01:01	50
N-Propylbenzene	<18		210	18	ug/Kg	☼	01/03/14 11:40	01/09/14 01:01	50
p-Isopropyltoluene	<20		210	20	ug/Kg	☼	01/03/14 11:40	01/09/14 01:01	50
sec-Butylbenzene	<16		110	16	ug/Kg	☼	01/03/14 11:40	01/09/14 01:01	50
Styrene	<10		110	10	ug/Kg	☼	01/03/14 11:40	01/09/14 01:01	50
tert-Butylbenzene	<14		110	14	ug/Kg	☼	01/03/14 11:40	01/09/14 01:01	50
Tetrachloroethene	<18		110	18	ug/Kg	☼	01/03/14 11:40	01/09/14 01:01	50
Toluene	<12		26	12	ug/Kg	☼	01/03/14 11:40	01/09/14 01:01	50
trans-1,2-Dichloroethene	<26		110	26	ug/Kg	☼	01/03/14 11:40	01/09/14 01:01	50
trans-1,3-Dichloropropene	<22		110	22	ug/Kg	☼	01/03/14 11:40	01/09/14 01:01	50
Trichloroethene	<20		53	20	ug/Kg	☼	01/03/14 11:40	01/09/14 01:01	50
Trichlorofluoromethane	<44		210	44	ug/Kg	☼	01/03/14 11:40	01/09/14 01:01	50
Vinyl chloride	<11		26	11	ug/Kg	☼	01/03/14 11:40	01/09/14 01:01	50
Xylenes, Total	<7.2		53	7.2	ug/Kg	☼	01/03/14 11:40	01/09/14 01:01	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*94*		*75 - 125*	*01/03/14 11:40*	*01/09/14 01:01*	*50*
4-Bromofluorobenzene (Surr)	*108*		*75 - 120*	*01/03/14 11:40*	*01/09/14 01:01*	*50*
Dibromofluoromethane	*83*		*75 - 120*	*01/03/14 11:40*	*01/09/14 01:01*	*50*
Toluene-d8 (Surr)	*94*		*75 - 120*	*01/03/14 11:40*	*01/09/14 01:01*	*50*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<6.4		18	6.4	ug/Kg	☼	01/08/14 07:03	01/10/14 11:32	1
PCB-1221	<7.9		18	7.9	ug/Kg	☼	01/08/14 07:03	01/10/14 11:32	1
PCB-1232	<7.8		18	7.8	ug/Kg	☼	01/08/14 07:03	01/10/14 11:32	1
PCB-1242	**12**	**J**	18	5.9	ug/Kg	☼	01/08/14 07:03	01/10/14 11:32	1
PCB-1248	<7.1		18	7.1	ug/Kg	☼	01/08/14 07:03	01/10/14 11:32	1
PCB-1254	<3.9		18	3.9	ug/Kg	☼	01/08/14 07:03	01/10/14 11:32	1
PCB-1260	<8.8		18	8.8	ug/Kg	☼	01/08/14 07:03	01/10/14 11:32	1

Client Sample ID: B-187 (1.3-3.3) — **Lab Sample ID: 500-69634-10**
Date Collected: 01/03/14 11:40 — **Matrix: Solid**
Date Received: 01/07/14 10:10 — **Percent Solids: 91.2**

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	60		50 - 116	01/08/14 07:03	01/10/14 11:32	1
DCB Decachlorobiphenyl	84		48 - 142	01/08/14 07:03	01/10/14 11:32	1

Client Sample ID: B-187 (8-10) — **Lab Sample ID: 500-69634-11**
Date Collected: 01/03/14 12:00 — **Matrix: Solid**
Date Received: 01/07/14 10:10 — **Percent Solids: 94.3**

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<32		180	32	ug/Kg	☼	01/03/14 12:00	01/09/14 01:26	50
1,1,1-Trichloroethane	<18		91	18	ug/Kg	☼	01/03/14 12:00	01/09/14 01:26	50
1,1,2,2-Tetrachloroethane	<21		91	21	ug/Kg	☼	01/03/14 12:00	01/09/14 01:26	50
1,1,2-Trichloroethane	<25		91	25	ug/Kg	☼	01/03/14 12:00	01/09/14 01:26	50
1,1-Dichloroethane	<17		91	17	ug/Kg	☼	01/03/14 12:00	01/09/14 01:26	50
1,1-Dichloroethene	<28		91	28	ug/Kg	☼	01/03/14 12:00	01/09/14 01:26	50
1,1-Dichloropropene	<31		91	31	ug/Kg	☼	01/03/14 12:00	01/09/14 01:26	50
1,2,3-Trichlorobenzene	<32		180	32	ug/Kg	☼	01/03/14 12:00	01/09/14 01:26	50
1,2,3-Trichloropropane	<52		180	52	ug/Kg	☼	01/03/14 12:00	01/09/14 01:26	50
1,2,4-Trichlorobenzene	<35		180	35	ug/Kg	☼	01/03/14 12:00	01/09/14 01:26	50
1,2,4-Trimethylbenzene	<19		180	19	ug/Kg	☼	01/03/14 12:00	01/09/14 01:26	50
1,2-Dibromo-3-Chloropropane	<80		180	80	ug/Kg	☼	01/03/14 12:00	01/09/14 01:26	50
1,2-Dibromoethane	<29		180	29	ug/Kg	☼	01/03/14 12:00	01/09/14 01:26	50
1,2-Dichlorobenzene	<19		180	19	ug/Kg	☼	01/03/14 12:00	01/09/14 01:26	50
1,2-Dichloroethane	<26		91	26	ug/Kg	☼	01/03/14 12:00	01/09/14 01:26	50
1,2-Dichloropropane	<18		91	18	ug/Kg	☼	01/03/14 12:00	01/09/14 01:26	50
1,3,5-Trimethylbenzene	<19		180	19	ug/Kg	☼	01/03/14 12:00	01/09/14 01:26	50
1,3-Dichlorobenzene	<23		180	23	ug/Kg	☼	01/03/14 12:00	01/09/14 01:26	50
1,3-Dichloropropane	<12		91	12	ug/Kg	☼	01/03/14 12:00	01/09/14 01:26	50
1,4-Dichlorobenzene	<16		180	16	ug/Kg	☼	01/03/14 12:00	01/09/14 01:26	50
2,2-Dichloropropane	<29		91	29	ug/Kg	☼	01/03/14 12:00	01/09/14 01:26	50
2-Chlorotoluene	<19		91	19	ug/Kg	☼	01/03/14 12:00	01/09/14 01:26	50
4-Chlorotoluene	<18		91	18	ug/Kg	☼	01/03/14 12:00	01/09/14 01:26	50
Benzene	<6.8		23	6.8	ug/Kg	☼	01/03/14 12:00	01/09/14 01:26	50
Bromobenzene	<39		180	39	ug/Kg	☼	01/03/14 12:00	01/09/14 01:26	50
Bromochloromethane	<35		180	35	ug/Kg	☼	01/03/14 12:00	01/09/14 01:26	50
Bromodichloromethane	<31		180	31	ug/Kg	☼	01/03/14 12:00	01/09/14 01:26	50
Bromoform	<40		180	40	ug/Kg	☼	01/03/14 12:00	01/09/14 01:26	50
Bromomethane	<62		180	62	ug/Kg	☼	01/03/14 12:00	01/09/14 01:26	50
Carbon tetrachloride	<23		91	23	ug/Kg	☼	01/03/14 12:00	01/09/14 01:26	50
Chlorobenzene	<13		91	13	ug/Kg	☼	01/03/14 12:00	01/09/14 01:26	50
Chloroethane	<40		180	40	ug/Kg	☼	01/03/14 12:00	01/09/14 01:26	50
Chloroform	<19		91	19	ug/Kg	☼	01/03/14 12:00	01/09/14 01:26	50
Chloromethane	<42		180	42	ug/Kg	☼	01/03/14 12:00	01/09/14 01:26	50
cis-1,2-Dichloroethene	<11		91	11	ug/Kg	☼	01/03/14 12:00	01/09/14 01:26	50
cis-1,3-Dichloropropene	<16		91	16	ug/Kg	☼	01/03/14 12:00	01/09/14 01:26	50
Dibromochloromethane	<32		180	32	ug/Kg	☼	01/03/14 12:00	01/09/14 01:26	50
Dibromomethane	<44		180	44	ug/Kg	☼	01/03/14 12:00	01/09/14 01:26	50
Dichlorodifluoromethane	<47	*	180	47	ug/Kg	☼	01/03/14 12:00	01/09/14 01:26	50
Ethylbenzene	<12		23	12	ug/Kg	☼	01/03/14 12:00	01/09/14 01:26	50
Hexachlorobutadiene	<32		180	32	ug/Kg	☼	01/03/14 12:00	01/09/14 01:26	50

Client Sample ID: B-187 (8-10)

Lab Sample ID: 500-69634-11

Date Collected: 01/03/14 12:00
Matrix: Solid
Date Received: 01/07/14 10:10
Percent Solids: 94.3

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isopropyl ether	<13		180	13	ug/Kg	☼	01/03/14 12:00	01/09/14 01:26	50
Isopropylbenzene	<23		180	23	ug/Kg	☼	01/03/14 12:00	01/09/14 01:26	50
Methyl tert-butyl ether	<39		180	39	ug/Kg	☼	01/03/14 12:00	01/09/14 01:26	50
Methylene Chloride	<62		460	62	ug/Kg	☼	01/03/14 12:00	01/09/14 01:26	50
Naphthalene	<45		180	45	ug/Kg	☼	01/03/14 12:00	01/09/14 01:26	50
n-Butylbenzene	<12		91	12	ug/Kg	☼	01/03/14 12:00	01/09/14 01:26	50
N-Propylbenzene	<16		180	16	ug/Kg	☼	01/03/14 12:00	01/09/14 01:26	50
p-Isopropyltoluene	<17		180	17	ug/Kg	☼	01/03/14 12:00	01/09/14 01:26	50
sec-Butylbenzene	<14		91	14	ug/Kg	☼	01/03/14 12:00	01/09/14 01:26	50
Styrene	<9.0		91	9.0	ug/Kg	☼	01/03/14 12:00	01/09/14 01:26	50
tert-Butylbenzene	<12		91	12	ug/Kg	☼	01/03/14 12:00	01/09/14 01:26	50
Tetrachloroethene	<15		91	15	ug/Kg	☼	01/03/14 12:00	01/09/14 01:26	50
Toluene	<10		23	10	ug/Kg	☼	01/03/14 12:00	01/09/14 01:26	50
trans-1,2-Dichloroethene	<23		91	23	ug/Kg	☼	01/03/14 12:00	01/09/14 01:26	50
trans-1,3-Dichloropropene	<19		91	19	ug/Kg	☼	01/03/14 12:00	01/09/14 01:26	50
Trichloroethene	<17		46	17	ug/Kg	☼	01/03/14 12:00	01/09/14 01:26	50
Trichlorofluoromethane	<38		180	38	ug/Kg	☼	01/03/14 12:00	01/09/14 01:26	50
Vinyl chloride	<9.5		23	9.5	ug/Kg	☼	01/03/14 12:00	01/09/14 01:26	50
Xylenes, Total	<6.2		46	6.2	ug/Kg	☼	01/03/14 12:00	01/09/14 01:26	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*93*		*75 - 125*	*01/03/14 12:00*	*01/09/14 01:26*	*50*
4-Bromofluorobenzene (Surr)	*108*		*75 - 120*	*01/03/14 12:00*	*01/09/14 01:26*	*50*
Dibromofluoromethane	*84*		*75 - 120*	*01/03/14 12:00*	*01/09/14 01:26*	*50*
Toluene-d8 (Surr)	*95*		*75 - 120*	*01/03/14 12:00*	*01/09/14 01:26*	*50*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<6.0		17	6.0	ug/Kg	☼	01/08/14 07:03	01/10/14 11:46	1
PCB-1221	<7.5		17	7.5	ug/Kg	☼	01/08/14 07:03	01/10/14 11:46	1
PCB-1232	<7.4		17	7.4	ug/Kg	☼	01/08/14 07:03	01/10/14 11:46	1
PCB-1242	**12**	**J**	17	5.6	ug/Kg	☼	01/08/14 07:03	01/10/14 11:46	1
PCB-1248	<6.7		17	6.7	ug/Kg	☼	01/08/14 07:03	01/10/14 11:46	1
PCB-1254	<3.7		17	3.7	ug/Kg	☼	01/08/14 07:03	01/10/14 11:46	1
PCB-1260	<8.4		17	8.4	ug/Kg	☼	01/08/14 07:03	01/10/14 11:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*54*		*50 - 116*	*01/08/14 07:03*	*01/10/14 11:46*	*1*
DCB Decachlorobiphenyl	*86*		*48 - 142*	*01/08/14 07:03*	*01/10/14 11:46*	*1*

Client Sample ID: B-187 (12-14)

Lab Sample ID: 500-69634-12

Date Collected: 01/03/14 12:05
Matrix: Solid
Date Received: 01/07/14 10:10
Percent Solids: 94.6

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<31		180	31	ug/Kg	☼	01/03/14 12:05	01/09/14 01:51	50
1,1,1-Trichloroethane	<18		91	18	ug/Kg	☼	01/03/14 12:05	01/09/14 01:51	50
1,1,2,2-Tetrachloroethane	<21		91	21	ug/Kg	☼	01/03/14 12:05	01/09/14 01:51	50
1,1,2-Trichloroethane	<25		91	25	ug/Kg	☼	01/03/14 12:05	01/09/14 01:51	50

Client: ARCADIS U.S., Inc.
Project/Site: MadisonKipp

TestAmerica Job ID: 500-69634-1

Client Sample ID: B-187 (12-14)
Date Collected: 01/03/14 12:05
Date Received: 01/07/14 10:10

Lab Sample ID: 500-69634-12
Matrix: Solid
Percent Solids: 94.6

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	<17		91	17	ug/Kg	☼	01/03/14 12:05	01/09/14 01:51	50
1,1-Dichloroethene	<28		91	28	ug/Kg	☼	01/03/14 12:05	01/09/14 01:51	50
1,1-Dichloropropene	<31		91	31	ug/Kg	☼	01/03/14 12:05	01/09/14 01:51	50
1,2,3-Trichlorobenzene	<32		180	32	ug/Kg	☼	01/03/14 12:05	01/09/14 01:51	50
1,2,3-Trichloropropane	<52		180	52	ug/Kg	☼	01/03/14 12:05	01/09/14 01:51	50
1,2,4-Trichlorobenzene	<34		180	34	ug/Kg	☼	01/03/14 12:05	01/09/14 01:51	50
1,2,4-Trimethylbenzene	<19		180	19	ug/Kg	☼	01/03/14 12:05	01/09/14 01:51	50
1,2-Dibromo-3-Chloropropane	<79		180	79	ug/Kg	☼	01/03/14 12:05	01/09/14 01:51	50
1,2-Dibromoethane	<28		180	28	ug/Kg	☼	01/03/14 12:05	01/09/14 01:51	50
1,2-Dichlorobenzene	<19		180	19	ug/Kg	☼	01/03/14 12:05	01/09/14 01:51	50
1,2-Dichloroethane	<26		91	26	ug/Kg	☼	01/03/14 12:05	01/09/14 01:51	50
1,2-Dichloropropane	<18		91	18	ug/Kg	☼	01/03/14 12:05	01/09/14 01:51	50
1,3,5-Trimethylbenzene	<19		180	19	ug/Kg	☼	01/03/14 12:05	01/09/14 01:51	50
1,3-Dichlorobenzene	<23		180	23	ug/Kg	☼	01/03/14 12:05	01/09/14 01:51	50
1,3-Dichloropropane	<12		91	12	ug/Kg	☼	01/03/14 12:05	01/09/14 01:51	50
1,4-Dichlorobenzene	<16		180	16	ug/Kg	☼	01/03/14 12:05	01/09/14 01:51	50
2,2-Dichloropropane	<29		91	29	ug/Kg	☼	01/03/14 12:05	01/09/14 01:51	50
2-Chlorotoluene	<19		91	19	ug/Kg	☼	01/03/14 12:05	01/09/14 01:51	50
4-Chlorotoluene	<18		91	18	ug/Kg	☼	01/03/14 12:05	01/09/14 01:51	50
Benzene	<6.7		23	6.7	ug/Kg	☼	01/03/14 12:05	01/09/14 01:51	50
Bromobenzene	<39		180	39	ug/Kg	☼	01/03/14 12:05	01/09/14 01:51	50
Bromochloromethane	<34		180	34	ug/Kg	☼	01/03/14 12:05	01/09/14 01:51	50
Bromodichloromethane	<31		180	31	ug/Kg	☼	01/03/14 12:05	01/09/14 01:51	50
Bromoform	<40		180	40	ug/Kg	☼	01/03/14 12:05	01/09/14 01:51	50
Bromomethane	<62		180	62	ug/Kg	☼	01/03/14 12:05	01/09/14 01:51	50
Carbon tetrachloride	<23		91	23	ug/Kg	☼	01/03/14 12:05	01/09/14 01:51	50
Chlorobenzene	<13		91	13	ug/Kg	☼	01/03/14 12:05	01/09/14 01:51	50
Chloroethane	<39		180	39	ug/Kg	☼	01/03/14 12:05	01/09/14 01:51	50
Chloroform	<19		91	19	ug/Kg	☼	01/03/14 12:05	01/09/14 01:51	50
Chloromethane	<42		180	42	ug/Kg	☼	01/03/14 12:05	01/09/14 01:51	50
cis-1,2-Dichloroethene	<11		91	11	ug/Kg	☼	01/03/14 12:05	01/09/14 01:51	50
cis-1,3-Dichloropropene	<16		91	16	ug/Kg	☼	01/03/14 12:05	01/09/14 01:51	50
Dibromochloromethane	<31		180	31	ug/Kg	☼	01/03/14 12:05	01/09/14 01:51	50
Dibromomethane	<44		180	44	ug/Kg	☼	01/03/14 12:05	01/09/14 01:51	50
Dichlorodifluoromethane	<46	*	180	46	ug/Kg	☼	01/03/14 12:05	01/09/14 01:51	50
Ethylbenzene	<11		23	11	ug/Kg	☼	01/03/14 12:05	01/09/14 01:51	50
Hexachlorobutadiene	<31		180	31	ug/Kg	☼	01/03/14 12:05	01/09/14 01:51	50
Isopropyl ether	<13		180	13	ug/Kg	☼	01/03/14 12:05	01/09/14 01:51	50
Isopropylbenzene	<23		180	23	ug/Kg	☼	01/03/14 12:05	01/09/14 01:51	50
Methyl tert-butyl ether	<39		180	39	ug/Kg	☼	01/03/14 12:05	01/09/14 01:51	50
Methylene Chloride	<62		450	62	ug/Kg	☼	01/03/14 12:05	01/09/14 01:51	50
Naphthalene	<45		180	45	ug/Kg	☼	01/03/14 12:05	01/09/14 01:51	50
n-Butylbenzene	<12		91	12	ug/Kg	☼	01/03/14 12:05	01/09/14 01:51	50
N-Propylbenzene	<16		180	16	ug/Kg	☼	01/03/14 12:05	01/09/14 01:51	50
p-Isopropyltoluene	<17		180	17	ug/Kg	☼	01/03/14 12:05	01/09/14 01:51	50
sec-Butylbenzene	<14		91	14	ug/Kg	☼	01/03/14 12:05	01/09/14 01:51	50
Styrene	<9.0		91	9.0	ug/Kg	☼	01/03/14 12:05	01/09/14 01:51	50
tert-Butylbenzene	<12		91	12	ug/Kg	☼	01/03/14 12:05	01/09/14 01:51	50
Tetrachloroethene	<15		91	15	ug/Kg	☼	01/03/14 12:05	01/09/14 01:51	50

Client Sample ID: B-187 (12-14)

Lab Sample ID: 500-69634-12

Date Collected: 01/03/14 12:05
Matrix: Solid
Date Received: 01/07/14 10:10
Percent Solids: 94.6

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	<10		23	10	ug/Kg	☼	01/03/14 12:05	01/09/14 01:51	50
trans-1,2-Dichloroethene	<23		91	23	ug/Kg	☼	01/03/14 12:05	01/09/14 01:51	50
trans-1,3-Dichloropropene	<19		91	19	ug/Kg	☼	01/03/14 12:05	01/09/14 01:51	50
Trichloroethene	<17		45	17	ug/Kg	☼	01/03/14 12:05	01/09/14 01:51	50
Trichlorofluoromethane	<38		180	38	ug/Kg	☼	01/03/14 12:05	01/09/14 01:51	50
Vinyl chloride	<9.4		23	9.4	ug/Kg	☼	01/03/14 12:05	01/09/14 01:51	50
Xylenes, Total	<6.2		45	6.2	ug/Kg	☼	01/03/14 12:05	01/09/14 01:51	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*93*		*75 - 125*	*01/03/14 12:05*	*01/09/14 01:51*	*50*
4-Bromofluorobenzene (Surr)	*108*		*75 - 120*	*01/03/14 12:05*	*01/09/14 01:51*	*50*
Dibromofluoromethane	*82*		*75 - 120*	*01/03/14 12:05*	*01/09/14 01:51*	*50*
Toluene-d8 (Surr)	*95*		*75 - 120*	*01/03/14 12:05*	*01/09/14 01:51*	*50*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<6.1		17	6.1	ug/Kg	☼	01/08/14 07:03	01/10/14 12:01	1
PCB-1221	<7.6		17	7.6	ug/Kg	☼	01/08/14 07:03	01/10/14 12:01	1
PCB-1232	<7.5		17	7.5	ug/Kg	☼	01/08/14 07:03	01/10/14 12:01	1
PCB-1242	**150**		17	5.7	ug/Kg	☼	01/08/14 07:03	01/10/14 12:01	1
PCB-1248	<6.8		17	6.8	ug/Kg	☼	01/08/14 07:03	01/10/14 12:01	1
PCB-1254	<3.7		17	3.7	ug/Kg	☼	01/08/14 07:03	01/10/14 12:01	1
PCB-1260	<8.5		17	8.5	ug/Kg	☼	01/08/14 07:03	01/10/14 12:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*58*		*50 - 116*	*01/08/14 07:03*	*01/10/14 12:01*	*1*
DCB Decachlorobiphenyl	*86*		*48 - 142*	*01/08/14 07:03*	*01/10/14 12:01*	*1*

Client Sample ID: B-160 (12-14)

Lab Sample ID: 500-69634-13

Date Collected: 01/03/14 12:50
Matrix: Solid
Date Received: 01/07/14 10:10
Percent Solids: 96.2

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<28		160	28	ug/Kg	☼	01/03/14 12:50	01/09/14 02:15	50
1,1,1-Trichloroethane	<16		80	16	ug/Kg	☼	01/03/14 12:50	01/09/14 02:15	50
1,1,2,2-Tetrachloroethane	<19		80	19	ug/Kg	☼	01/03/14 12:50	01/09/14 02:15	50
1,1,2-Trichloroethane	<22		80	22	ug/Kg	☼	01/03/14 12:50	01/09/14 02:15	50
1,1-Dichloroethane	<15		80	15	ug/Kg	☼	01/03/14 12:50	01/09/14 02:15	50
1,1-Dichloroethene	<24		80	24	ug/Kg	☼	01/03/14 12:50	01/09/14 02:15	50
1,1-Dichloropropene	<27		80	27	ug/Kg	☼	01/03/14 12:50	01/09/14 02:15	50
1,2,3-Trichlorobenzene	<28		160	28	ug/Kg	☼	01/03/14 12:50	01/09/14 02:15	50
1,2,3-Trichloropropane	<46		160	46	ug/Kg	☼	01/03/14 12:50	01/09/14 02:15	50
1,2,4-Trichlorobenzene	<30		160	30	ug/Kg	☼	01/03/14 12:50	01/09/14 02:15	50
1,2,4-Trimethylbenzene	<17		160	17	ug/Kg	☼	01/03/14 12:50	01/09/14 02:15	50
1,2-Dibromo-3-Chloropropane	<69		160	69	ug/Kg	☼	01/03/14 12:50	01/09/14 02:15	50
1,2-Dibromoethane	<25		160	25	ug/Kg	☼	01/03/14 12:50	01/09/14 02:15	50
1,2-Dichlorobenzene	<16		160	16	ug/Kg	☼	01/03/14 12:50	01/09/14 02:15	50
1,2-Dichloroethane	<23		80	23	ug/Kg	☼	01/03/14 12:50	01/09/14 02:15	50
1,2-Dichloropropane	<16		80	16	ug/Kg	☼	01/03/14 12:50	01/09/14 02:15	50

Client: ARCADIS U.S., Inc.
Project/Site: MadisonKipp

TestAmerica Job ID: 500-69634-1

Client Sample ID: B-160 (12-14)
Date Collected: 01/03/14 12:50
Date Received: 01/07/14 10:10

Lab Sample ID: 500-69634-13
Matrix: Solid
Percent Solids: 96.2

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3,5-Trimethylbenzene	<16		160	16	ug/Kg	☼	01/03/14 12:50	01/09/14 02:15	50
1,3-Dichlorobenzene	<20		160	20	ug/Kg	☼	01/03/14 12:50	01/09/14 02:15	50
1,3-Dichloropropane	<11		80	11	ug/Kg	☼	01/03/14 12:50	01/09/14 02:15	50
1,4-Dichlorobenzene	<14		160	14	ug/Kg	☼	01/03/14 12:50	01/09/14 02:15	50
2,2-Dichloropropane	<25		80	25	ug/Kg	☼	01/03/14 12:50	01/09/14 02:15	50
2-Chlorotoluene	<16		80	16	ug/Kg	☼	01/03/14 12:50	01/09/14 02:15	50
4-Chlorotoluene	<16		80	16	ug/Kg	☼	01/03/14 12:50	01/09/14 02:15	50
Benzene	<5.9		20	5.9	ug/Kg	☼	01/03/14 12:50	01/09/14 02:15	50
Bromobenzene	<34		160	34	ug/Kg	☼	01/03/14 12:50	01/09/14 02:15	50
Bromochloromethane	<30		160	30	ug/Kg	☼	01/03/14 12:50	01/09/14 02:15	50
Bromodichloromethane	<27		160	27	ug/Kg	☼	01/03/14 12:50	01/09/14 02:15	50
Bromoform	<35		160	35	ug/Kg	☼	01/03/14 12:50	01/09/14 02:15	50
Bromomethane	<54		160	54	ug/Kg	☼	01/03/14 12:50	01/09/14 02:15	50
Carbon tetrachloride	<20		80	20	ug/Kg	☼	01/03/14 12:50	01/09/14 02:15	50
Chlorobenzene	<11		80	11	ug/Kg	☼	01/03/14 12:50	01/09/14 02:15	50
Chloroethane	<35		160	35	ug/Kg	☼	01/03/14 12:50	01/09/14 02:15	50
Chloroform	<16		80	16	ug/Kg	☼	01/03/14 12:50	01/09/14 02:15	50
Chloromethane	<37		160	37	ug/Kg	☼	01/03/14 12:50	01/09/14 02:15	50
cis-1,2-Dichloroethene	<9.8		80	9.8	ug/Kg	☼	01/03/14 12:50	01/09/14 02:15	50
cis-1,3-Dichloropropene	<14		80	14	ug/Kg	☼	01/03/14 12:50	01/09/14 02:15	50
Dibromochloromethane	<28		160	28	ug/Kg	☼	01/03/14 12:50	01/09/14 02:15	50
Dibromomethane	<38		160	38	ug/Kg	☼	01/03/14 12:50	01/09/14 02:15	50
Dichlorodifluoromethane	<41	*	160	41	ug/Kg	☼	01/03/14 12:50	01/09/14 02:15	50
Ethylbenzene	<10		20	10	ug/Kg	☼	01/03/14 12:50	01/09/14 02:15	50
Hexachlorobutadiene	<28		160	28	ug/Kg	☼	01/03/14 12:50	01/09/14 02:15	50
Isopropyl ether	<12		160	12	ug/Kg	☼	01/03/14 12:50	01/09/14 02:15	50
Isopropylbenzene	<20		160	20	ug/Kg	☼	01/03/14 12:50	01/09/14 02:15	50
Methyl tert-butyl ether	<34		160	34	ug/Kg	☼	01/03/14 12:50	01/09/14 02:15	50
Methylene Chloride	<54		400	54	ug/Kg	☼	01/03/14 12:50	01/09/14 02:15	50
Naphthalene	<39		160	39	ug/Kg	☼	01/03/14 12:50	01/09/14 02:15	50
n-Butylbenzene	<10		80	10	ug/Kg	☼	01/03/14 12:50	01/09/14 02:15	50
N-Propylbenzene	<14		160	14	ug/Kg	☼	01/03/14 12:50	01/09/14 02:15	50
p-Isopropyltoluene	<15		160	15	ug/Kg	☼	01/03/14 12:50	01/09/14 02:15	50
sec-Butylbenzene	<12		80	12	ug/Kg	☼	01/03/14 12:50	01/09/14 02:15	50
Styrene	<7.9		80	7.9	ug/Kg	☼	01/03/14 12:50	01/09/14 02:15	50
tert-Butylbenzene	<11		80	11	ug/Kg	☼	01/03/14 12:50	01/09/14 02:15	50
Tetrachloroethene	<13		80	13	ug/Kg	☼	01/03/14 12:50	01/09/14 02:15	50
Toluene	<9.2		20	9.2	ug/Kg	☼	01/03/14 12:50	01/09/14 02:15	50
trans-1,2-Dichloroethene	<20		80	20	ug/Kg	☼	01/03/14 12:50	01/09/14 02:15	50
trans-1,3-Dichloropropene	<17		80	17	ug/Kg	☼	01/03/14 12:50	01/09/14 02:15	50
Trichloroethene	<15		40	15	ug/Kg	☼	01/03/14 12:50	01/09/14 02:15	50
Trichlorofluoromethane	<33		160	33	ug/Kg	☼	01/03/14 12:50	01/09/14 02:15	50
Vinyl chloride	<8.3		20	8.3	ug/Kg	☼	01/03/14 12:50	01/09/14 02:15	50
Xylenes, Total	<5.4		40	5.4	ug/Kg	☼	01/03/14 12:50	01/09/14 02:15	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*93*		*75 - 125*	*01/03/14 12:50*	*01/09/14 02:15*	*50*
4-Bromofluorobenzene (Surr)	*107*		*75 - 120*	*01/03/14 12:50*	*01/09/14 02:15*	*50*
Dibromofluoromethane	*83*		*75 - 120*	*01/03/14 12:50*	*01/09/14 02:15*	*50*
Toluene-d8 (Surr)	*94*		*75 - 120*	*01/03/14 12:50*	*01/09/14 02:15*	*50*

Client Sample ID: B-160 (12-14)

Lab Sample ID: 500-69634-13

Date Collected: 01/03/14 12:50
Matrix: Solid
Date Received: 01/07/14 10:10
Percent Solids: 96.2

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<60		170	60	ug/Kg	☼	01/08/14 07:03	01/12/14 07:36	10
PCB-1221	<74		170	74	ug/Kg	☼	01/08/14 07:03	01/12/14 07:36	10
PCB-1232	<74		170	74	ug/Kg	☼	01/08/14 07:03	01/12/14 07:36	10
PCB-1242	1800		170	55	ug/Kg	☼	01/08/14 07:03	01/12/14 07:36	10
PCB-1248	<67		170	67	ug/Kg	☼	01/08/14 07:03	01/12/14 07:36	10
PCB-1254	<36		170	36	ug/Kg	☼	01/08/14 07:03	01/12/14 07:36	10
PCB-1260	<83		170	83	ug/Kg	☼	01/08/14 07:03	01/12/14 07:36	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*93*		*50 - 116*	*01/08/14 07:03*	*01/12/14 07:36*	*10*
DCB Decachlorobiphenyl	*106*		*48 - 142*	*01/08/14 07:03*	*01/12/14 07:36*	*10*

Client Sample ID: B-160 (17-19)

Lab Sample ID: 500-69634-14

Date Collected: 01/03/14 12:55
Matrix: Solid
Date Received: 01/07/14 10:10
Percent Solids: 93.5

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<28		160	28	ug/Kg	☼	01/03/14 12:55	01/09/14 02:41	50
1,1,1-Trichloroethane	<16		81	16	ug/Kg	☼	01/03/14 12:55	01/09/14 02:41	50
1,1,2,2-Tetrachloroethane	<19		81	19	ug/Kg	☼	01/03/14 12:55	01/09/14 02:41	50
1,1,2-Trichloroethane	<22		81	22	ug/Kg	☼	01/03/14 12:55	01/09/14 02:41	50
1,1-Dichloroethane	<15		81	15	ug/Kg	☼	01/03/14 12:55	01/09/14 02:41	50
1,1-Dichloroethene	<25		81	25	ug/Kg	☼	01/03/14 12:55	01/09/14 02:41	50
1,1-Dichloropropene	<28		81	28	ug/Kg	☼	01/03/14 12:55	01/09/14 02:41	50
1,2,3-Trichlorobenzene	<28		160	28	ug/Kg	☼	01/03/14 12:55	01/09/14 02:41	50
1,2,3-Trichloropropane	<46		160	46	ug/Kg	☼	01/03/14 12:55	01/09/14 02:41	50
1,2,4-Trichlorobenzene	<30		160	30	ug/Kg	☼	01/03/14 12:55	01/09/14 02:41	50
1,2,4-Trimethylbenzene	<17		160	17	ug/Kg	☼	01/03/14 12:55	01/09/14 02:41	50
1,2-Dibromo-3-Chloropropane	<70		160	70	ug/Kg	☼	01/03/14 12:55	01/09/14 02:41	50
1,2-Dibromoethane	<25		160	25	ug/Kg	☼	01/03/14 12:55	01/09/14 02:41	50
1,2-Dichlorobenzene	<17		160	17	ug/Kg	☼	01/03/14 12:55	01/09/14 02:41	50
1,2-Dichloroethane	<23		81	23	ug/Kg	☼	01/03/14 12:55	01/09/14 02:41	50
1,2-Dichloropropane	<16		81	16	ug/Kg	☼	01/03/14 12:55	01/09/14 02:41	50
1,3,5-Trimethylbenzene	<17		160	17	ug/Kg	☼	01/03/14 12:55	01/09/14 02:41	50
1,3-Dichlorobenzene	<21		160	21	ug/Kg	☼	01/03/14 12:55	01/09/14 02:41	50
1,3-Dichloropropane	<11		81	11	ug/Kg	☼	01/03/14 12:55	01/09/14 02:41	50
1,4-Dichlorobenzene	<14		160	14	ug/Kg	☼	01/03/14 12:55	01/09/14 02:41	50
2,2-Dichloropropane	<25		81	25	ug/Kg	☼	01/03/14 12:55	01/09/14 02:41	50
2-Chlorotoluene	<17		81	17	ug/Kg	☼	01/03/14 12:55	01/09/14 02:41	50
4-Chlorotoluene	<16		81	16	ug/Kg	☼	01/03/14 12:55	01/09/14 02:41	50
Benzene	<6.0		20	6.0	ug/Kg	☼	01/03/14 12:55	01/09/14 02:41	50
Bromobenzene	<34		160	34	ug/Kg	☼	01/03/14 12:55	01/09/14 02:41	50
Bromochloromethane	<30		160	30	ug/Kg	☼	01/03/14 12:55	01/09/14 02:41	50
Bromodichloromethane	<27		160	27	ug/Kg	☼	01/03/14 12:55	01/09/14 02:41	50
Bromoform	<36		160	36	ug/Kg	☼	01/03/14 12:55	01/09/14 02:41	50
Bromomethane	<55		160	55	ug/Kg	☼	01/03/14 12:55	01/09/14 02:41	50
Carbon tetrachloride	<21		81	21	ug/Kg	☼	01/03/14 12:55	01/09/14 02:41	50
Chlorobenzene	<12		81	12	ug/Kg	☼	01/03/14 12:55	01/09/14 02:41	50
Chloroethane	<35		160	35	ug/Kg	☼	01/03/14 12:55	01/09/14 02:41	50

Client: ARCADIS U.S., Inc.
Project/Site: MadisonKipp

TestAmerica Job ID: 500-69634-1

Client Sample ID: B-160 (17-19)
Date Collected: 01/03/14 12:55
Date Received: 01/07/14 10:10

Lab Sample ID: 500-69634-14
Matrix: Solid
Percent Solids: 93.5

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroform	<17		81	17	ug/Kg	☼	01/03/14 12:55	01/09/14 02:41	50
Chloromethane	<37		160	37	ug/Kg	☼	01/03/14 12:55	01/09/14 02:41	50
cis-1,2-Dichloroethene	<9.9		81	9.9	ug/Kg	☼	01/03/14 12:55	01/09/14 02:41	50
cis-1,3-Dichloropropene	<14		81	14	ug/Kg	☼	01/03/14 12:55	01/09/14 02:41	50
Dibromochloromethane	<28		160	28	ug/Kg	☼	01/03/14 12:55	01/09/14 02:41	50
Dibromomethane	<39		160	39	ug/Kg	☼	01/03/14 12:55	01/09/14 02:41	50
Dichlorodifluoromethane	<41	*	160	41	ug/Kg	☼	01/03/14 12:55	01/09/14 02:41	50
Ethylbenzene	<10		20	10	ug/Kg	☼	01/03/14 12:55	01/09/14 02:41	50
Hexachlorobutadiene	<28		160	28	ug/Kg	☼	01/03/14 12:55	01/09/14 02:41	50
Isopropyl ether	<12		160	12	ug/Kg	☼	01/03/14 12:55	01/09/14 02:41	50
Isopropylbenzene	<20		160	20	ug/Kg	☼	01/03/14 12:55	01/09/14 02:41	50
Methyl tert-butyl ether	<35		160	35	ug/Kg	☼	01/03/14 12:55	01/09/14 02:41	50
Methylene Chloride	<55		400	55	ug/Kg	☼	01/03/14 12:55	01/09/14 02:41	50
Naphthalene	<40		160	40	ug/Kg	☼	01/03/14 12:55	01/09/14 02:41	50
n-Butylbenzene	<10		81	10	ug/Kg	☼	01/03/14 12:55	01/09/14 02:41	50
N-Propylbenzene	<14		160	14	ug/Kg	☼	01/03/14 12:55	01/09/14 02:41	50
p-Isopropyltoluene	<15		160	15	ug/Kg	☼	01/03/14 12:55	01/09/14 02:41	50
sec-Butylbenzene	<12		81	12	ug/Kg	☼	01/03/14 12:55	01/09/14 02:41	50
Styrene	<8.0		81	8.0	ug/Kg	☼	01/03/14 12:55	01/09/14 02:41	50
tert-Butylbenzene	<11		81	11	ug/Kg	☼	01/03/14 12:55	01/09/14 02:41	50
Tetrachloroethene	<13		81	13	ug/Kg	☼	01/03/14 12:55	01/09/14 02:41	50
Toluene	<9.3		20	9.3	ug/Kg	☼	01/03/14 12:55	01/09/14 02:41	50
trans-1,2-Dichloroethene	<20		81	20	ug/Kg	☼	01/03/14 12:55	01/09/14 02:41	50
trans-1,3-Dichloropropene	<17		81	17	ug/Kg	☼	01/03/14 12:55	01/09/14 02:41	50
Trichloroethene	<15		40	15	ug/Kg	☼	01/03/14 12:55	01/09/14 02:41	50
Trichlorofluoromethane	<33		160	33	ug/Kg	☼	01/03/14 12:55	01/09/14 02:41	50
Vinyl chloride	<8.4		20	8.4	ug/Kg	☼	01/03/14 12:55	01/09/14 02:41	50
Xylenes, Total	<5.5		40	5.5	ug/Kg	☼	01/03/14 12:55	01/09/14 02:41	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*94*		*75 - 125*	*01/03/14 12:55*	*01/09/14 02:41*	*50*
4-Bromofluorobenzene (Surr)	*109*		*75 - 120*	*01/03/14 12:55*	*01/09/14 02:41*	*50*
Dibromofluoromethane	*82*		*75 - 120*	*01/03/14 12:55*	*01/09/14 02:41*	*50*
Toluene-d8 (Surr)	*96*		*75 - 120*	*01/03/14 12:55*	*01/09/14 02:41*	*50*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<6.3		18	6.3	ug/Kg	☼	01/08/14 07:03	01/10/14 12:28	1
PCB-1221	<7.8		18	7.8	ug/Kg	☼	01/08/14 07:03	01/10/14 12:28	1
PCB-1232	<7.7		18	7.7	ug/Kg	☼	01/08/14 07:03	01/10/14 12:28	1
PCB-1242	<5.8		18	5.8	ug/Kg	☼	01/08/14 07:03	01/10/14 12:28	1
PCB-1248	<7.0		18	7.0	ug/Kg	☼	01/08/14 07:03	01/10/14 12:28	1
PCB-1254	<3.8		18	3.8	ug/Kg	☼	01/08/14 07:03	01/10/14 12:28	1
PCB-1260	<8.7		18	8.7	ug/Kg	☼	01/08/14 07:03	01/10/14 12:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*69*		*50 - 116*	*01/08/14 07:03*	*01/10/14 12:28*	*1*
DCB Decachlorobiphenyl	*86*		*48 - 142*	*01/08/14 07:03*	*01/10/14 12:28*	*1*

Client: ARCADIS U.S., Inc.
Project/Site: MadisonKipp

TestAmerica Job ID: 500-69634-1

Client Sample ID: B-179 (2-4)
Date Collected: 01/03/14 13:25
Date Received: 01/07/14 10:10

Lab Sample ID: 500-69634-15
Matrix: Solid
Percent Solids: 83.4

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<34		190	34	ug/Kg	☼	01/03/14 13:25	01/09/14 03:05	50
1,1,1-Trichloroethane	<19		97	19	ug/Kg	☼	01/03/14 13:25	01/09/14 03:05	50
1,1,2,2-Tetrachloroethane	<23		97	23	ug/Kg	☼	01/03/14 13:25	01/09/14 03:05	50
1,1,2-Trichloroethane	<27		97	27	ug/Kg	☼	01/03/14 13:25	01/09/14 03:05	50
1,1-Dichloroethane	<18		97	18	ug/Kg	☼	01/03/14 13:25	01/09/14 03:05	50
1,1-Dichloroethene	<30		97	30	ug/Kg	☼	01/03/14 13:25	01/09/14 03:05	50
1,1-Dichloropropene	<33		97	33	ug/Kg	☼	01/03/14 13:25	01/09/14 03:05	50
1,2,3-Trichlorobenzene	<34		190	34	ug/Kg	☼	01/03/14 13:25	01/09/14 03:05	50
1,2,3-Trichloropropane	<56		190	56	ug/Kg	☼	01/03/14 13:25	01/09/14 03:05	50
1,2,4-Trichlorobenzene	<37		190	37	ug/Kg	☼	01/03/14 13:25	01/09/14 03:05	50
1,2,4-Trimethylbenzene	**140**	**J**	190	20	ug/Kg	☼	01/03/14 13:25	01/09/14 03:05	50
1,2-Dibromo-3-Chloropropane	<84		190	84	ug/Kg	☼	01/03/14 13:25	01/09/14 03:05	50
1,2-Dibromoethane	<30		190	30	ug/Kg	☼	01/03/14 13:25	01/09/14 03:05	50
1,2-Dichlorobenzene	<20		190	20	ug/Kg	☼	01/03/14 13:25	01/09/14 03:05	50
1,2-Dichloroethane	<28		97	28	ug/Kg	☼	01/03/14 13:25	01/09/14 03:05	50
1,2-Dichloropropane	<19		97	19	ug/Kg	☼	01/03/14 13:25	01/09/14 03:05	50
1,3,5-Trimethylbenzene	<20		190	20	ug/Kg	☼	01/03/14 13:25	01/09/14 03:05	50
1,3-Dichlorobenzene	<25		190	25	ug/Kg	☼	01/03/14 13:25	01/09/14 03:05	50
1,3-Dichloropropane	<13		97	13	ug/Kg	☼	01/03/14 13:25	01/09/14 03:05	50
1,4-Dichlorobenzene	<17		190	17	ug/Kg	☼	01/03/14 13:25	01/09/14 03:05	50
2,2-Dichloropropane	<31		97	31	ug/Kg	☼	01/03/14 13:25	01/09/14 03:05	50
2-Chlorotoluene	<20		97	20	ug/Kg	☼	01/03/14 13:25	01/09/14 03:05	50
4-Chlorotoluene	<19		97	19	ug/Kg	☼	01/03/14 13:25	01/09/14 03:05	50
Benzene	<7.2		24	7.2	ug/Kg	☼	01/03/14 13:25	01/09/14 03:05	50
Bromobenzene	<41		190	41	ug/Kg	☼	01/03/14 13:25	01/09/14 03:05	50
Bromochloromethane	<37		190	37	ug/Kg	☼	01/03/14 13:25	01/09/14 03:05	50
Bromodichloromethane	<33		190	33	ug/Kg	☼	01/03/14 13:25	01/09/14 03:05	50
Bromoform	<43		190	43	ug/Kg	☼	01/03/14 13:25	01/09/14 03:05	50
Bromomethane	<66		190	66	ug/Kg	☼	01/03/14 13:25	01/09/14 03:05	50
Carbon tetrachloride	<25		97	25	ug/Kg	☼	01/03/14 13:25	01/09/14 03:05	50
Chlorobenzene	<14		97	14	ug/Kg	☼	01/03/14 13:25	01/09/14 03:05	50
Chloroethane	<42		190	42	ug/Kg	☼	01/03/14 13:25	01/09/14 03:05	50
Chloroform	<20		97	20	ug/Kg	☼	01/03/14 13:25	01/09/14 03:05	50
Chloromethane	<45		190	45	ug/Kg	☼	01/03/14 13:25	01/09/14 03:05	50
cis-1,2-Dichloroethene	<12		97	12	ug/Kg	☼	01/03/14 13:25	01/09/14 03:05	50
cis-1,3-Dichloropropene	<17		97	17	ug/Kg	☼	01/03/14 13:25	01/09/14 03:05	50
Dibromochloromethane	<34		190	34	ug/Kg	☼	01/03/14 13:25	01/09/14 03:05	50
Dibromomethane	<46		190	46	ug/Kg	☼	01/03/14 13:25	01/09/14 03:05	50
Dichlorodifluoromethane	<50	*	190	50	ug/Kg	☼	01/03/14 13:25	01/09/14 03:05	50
Ethylbenzene	<12		24	12	ug/Kg	☼	01/03/14 13:25	01/09/14 03:05	50
Hexachlorobutadiene	<34		190	34	ug/Kg	☼	01/03/14 13:25	01/09/14 03:05	50
Isopropyl ether	<14		190	14	ug/Kg	☼	01/03/14 13:25	01/09/14 03:05	50
Isopropylbenzene	**120**	**J**	190	24	ug/Kg	☼	01/03/14 13:25	01/09/14 03:05	50
Methyl tert-butyl ether	<42		190	42	ug/Kg	☼	01/03/14 13:25	01/09/14 03:05	50
Methylene Chloride	<66		480	66	ug/Kg	☼	01/03/14 13:25	01/09/14 03:05	50
Naphthalene	<48		190	48	ug/Kg	☼	01/03/14 13:25	01/09/14 03:05	50
n-Butylbenzene	<12		97	12	ug/Kg	☼	01/03/14 13:25	01/09/14 03:05	50
N-Propylbenzene	<17		190	17	ug/Kg	☼	01/03/14 13:25	01/09/14 03:05	50
p-Isopropyltoluene	<18		190	18	ug/Kg	☼	01/03/14 13:25	01/09/14 03:05	50

Client Sample ID: B-179 (2-4)

Lab Sample ID: 500-69634-15
Date Collected: 01/03/14 13:25
Matrix: Solid
Date Received: 01/07/14 10:10
Percent Solids: 83.4

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	<15		97	15	ug/Kg	☼	01/03/14 13:25	01/09/14 03:05	50
Styrene	<9.6		97	9.6	ug/Kg	☼	01/03/14 13:25	01/09/14 03:05	50
tert-Butylbenzene	<13		97	13	ug/Kg	☼	01/03/14 13:25	01/09/14 03:05	50
Tetrachloroethene	<16		97	16	ug/Kg	☼	01/03/14 13:25	01/09/14 03:05	50
Toluene	<11		24	11	ug/Kg	☼	01/03/14 13:25	01/09/14 03:05	50
trans-1,2-Dichloroethene	<24		97	24	ug/Kg	☼	01/03/14 13:25	01/09/14 03:05	50
trans-1,3-Dichloropropene	<20		97	20	ug/Kg	☼	01/03/14 13:25	01/09/14 03:05	50
Trichloroethene	<18		48	18	ug/Kg	☼	01/03/14 13:25	01/09/14 03:05	50
Trichlorofluoromethane	<40		190	40	ug/Kg	☼	01/03/14 13:25	01/09/14 03:05	50
Vinyl chloride	<10		24	10	ug/Kg	☼	01/03/14 13:25	01/09/14 03:05	50
Xylenes, Total	<6.6		48	6.6	ug/Kg	☼	01/03/14 13:25	01/09/14 03:05	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*95*		*75 - 125*	*01/03/14 13:25*	*01/09/14 03:05*	*50*
4-Bromofluorobenzene (Surr)	*109*		*75 - 120*	*01/03/14 13:25*	*01/09/14 03:05*	*50*
Dibromofluoromethane	*79*		*75 - 120*	*01/03/14 13:25*	*01/09/14 03:05*	*50*
Toluene-d8 (Surr)	*98*		*75 - 120*	*01/03/14 13:25*	*01/09/14 03:05*	*50*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<1400		3800	1400	ug/Kg	☼	01/08/14 07:03	01/10/14 17:36	200
PCB-1221	<1700		3800	1700	ug/Kg	☼	01/08/14 07:03	01/10/14 17:36	200
PCB-1232	<1700		3800	1700	ug/Kg	☼	01/08/14 07:03	01/10/14 17:36	200
PCB-1242	**60000**		3800	1300	ug/Kg	☼	01/08/14 07:03	01/10/14 17:36	200
PCB-1248	<1500		3800	1500	ug/Kg	☼	01/08/14 07:03	01/10/14 17:36	200
PCB-1254	<830		3800	830	ug/Kg	☼	01/08/14 07:03	01/10/14 17:36	200
PCB-1260	<1900		3800	1900	ug/Kg	☼	01/08/14 07:03	01/10/14 17:36	200

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*0*	*D*	*50 - 116*	*01/08/14 07:03*	*01/10/14 17:36*	*200*
DCB Decachlorobiphenyl	*0*	*D*	*48 - 142*	*01/08/14 07:03*	*01/10/14 17:36*	*200*

Client Sample ID: B-179 (9-11)

Lab Sample ID: 500-69634-16
Date Collected: 01/03/14 14:00
Matrix: Solid
Date Received: 01/07/14 10:10
Percent Solids: 97.0

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<18		110	18	ug/Kg	☼	01/07/14 15:49	01/09/14 07:33	50
1,1,1-Trichloroethane	<11		53	11	ug/Kg	☼	01/07/14 15:49	01/09/14 07:33	50
1,1,2,2-Tetrachloroethane	<13		53	13	ug/Kg	☼	01/07/14 15:49	01/09/14 07:33	50
1,1,2-Trichloroethane	<15		53	15	ug/Kg	☼	01/07/14 15:49	01/09/14 07:33	50
1,1-Dichloroethane	<9.9		53	9.9	ug/Kg	☼	01/07/14 15:49	01/09/14 07:33	50
1,1-Dichloroethene	<16		53	16	ug/Kg	☼	01/07/14 15:49	01/09/14 07:33	50
1,1-Dichloropropene	<18		53	18	ug/Kg	☼	01/07/14 15:49	01/09/14 07:33	50
1,2,3-Trichlorobenzene	<19		110	19	ug/Kg	☼	01/07/14 15:49	01/09/14 07:33	50
1,2,3-Trichloropropane	<31		110	31	ug/Kg	☼	01/07/14 15:49	01/09/14 07:33	50
1,2,4-Trichlorobenzene	**160**		110	20	ug/Kg	☼	01/07/14 15:49	01/09/14 07:33	50
1,2,4-Trimethylbenzene	**330**		110	11	ug/Kg	☼	01/07/14 15:49	01/09/14 07:33	50
1,2-Dibromo-3-Chloropropane	<47		110	47	ug/Kg	☼	01/07/14 15:49	01/09/14 07:33	50

Client: ARCADIS U.S., Inc.
Project/Site: MadisonKipp

TestAmerica Job ID: 500-69634-1

Client Sample ID: B-179 (9-11)
Date Collected: 01/03/14 14:00
Date Received: 01/07/14 10:10

Lab Sample ID: 500-69634-16
Matrix: Solid
Percent Solids: 97.0

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane	<17		110	17	ug/Kg	☼	01/07/14 15:49	01/09/14 07:33	50
1,2-Dichlorobenzene	<11		110	11	ug/Kg	☼	01/07/14 15:49	01/09/14 07:33	50
1,2-Dichloroethane	<15		53	15	ug/Kg	☼	01/07/14 15:49	01/09/14 07:33	50
1,2-Dichloropropane	<10		53	10	ug/Kg	☼	01/07/14 15:49	01/09/14 07:33	50
1,3,5-Trimethylbenzene	**84**	**J**	110	11	ug/Kg	☼	01/07/14 15:49	01/09/14 07:33	50
1,3-Dichlorobenzene	<14		110	14	ug/Kg	☼	01/07/14 15:49	01/09/14 07:33	50
1,3-Dichloropropane	<7.2		53	7.2	ug/Kg	☼	01/07/14 15:49	01/09/14 07:33	50
1,4-Dichlorobenzene	<9.3		110	9.3	ug/Kg	☼	01/07/14 15:49	01/09/14 07:33	50
2,2-Dichloropropane	<17		53	17	ug/Kg	☼	01/07/14 15:49	01/09/14 07:33	50
2-Chlorotoluene	<11		53	11	ug/Kg	☼	01/07/14 15:49	01/09/14 07:33	50
4-Chlorotoluene	<11		53	11	ug/Kg	☼	01/07/14 15:49	01/09/14 07:33	50
Benzene	<4.0		13	4.0	ug/Kg	☼	01/07/14 15:49	01/09/14 07:33	50
Bromobenzene	<23		110	23	ug/Kg	☼	01/07/14 15:49	01/09/14 07:33	50
Bromochloromethane	<20		110	20	ug/Kg	☼	01/07/14 15:49	01/09/14 07:33	50
Bromodichloromethane	<18		110	18	ug/Kg	☼	01/07/14 15:49	01/09/14 07:33	50
Bromoform	<24		110	24	ug/Kg	☼	01/07/14 15:49	01/09/14 07:33	50
Bromomethane	<36		110	36	ug/Kg	☼	01/07/14 15:49	01/09/14 07:33	50
Carbon tetrachloride	<14		53	14	ug/Kg	☼	01/07/14 15:49	01/09/14 07:33	50
Chlorobenzene	<7.6		53	7.6	ug/Kg	☼	01/07/14 15:49	01/09/14 07:33	50
Chloroethane	<23		110	23	ug/Kg	☼	01/07/14 15:49	01/09/14 07:33	50
Chloroform	<11		53	11	ug/Kg	☼	01/07/14 15:49	01/09/14 07:33	50
Chloromethane	<25		110	25	ug/Kg	☼	01/07/14 15:49	01/09/14 07:33	50
cis-1,2-Dichloroethene	<6.6		53	6.6	ug/Kg	☼	01/07/14 15:49	01/09/14 07:33	50
cis-1,3-Dichloropropene	<9.5		53	9.5	ug/Kg	☼	01/07/14 15:49	01/09/14 07:33	50
Dibromochloromethane	<18		110	18	ug/Kg	☼	01/07/14 15:49	01/09/14 07:33	50
Dibromomethane	<26		110	26	ug/Kg	☼	01/07/14 15:49	01/09/14 07:33	50
Dichlorodifluoromethane	<27		110	27	ug/Kg	☼	01/07/14 15:49	01/09/14 07:33	50
Ethylbenzene	<6.7		13	6.7	ug/Kg	☼	01/07/14 15:49	01/09/14 07:33	50
Hexachlorobutadiene	<18		110	18	ug/Kg	☼	01/07/14 15:49	01/09/14 07:33	50
Isopropyl ether	<7.9		110	7.9	ug/Kg	☼	01/07/14 15:49	01/09/14 07:33	50
Isopropylbenzene	**210**		110	13	ug/Kg	☼	01/07/14 15:49	01/09/14 07:33	50
Methyl tert-butyl ether	<23		110	23	ug/Kg	☼	01/07/14 15:49	01/09/14 07:33	50
Methylene Chloride	<37		270	37	ug/Kg	☼	01/07/14 15:49	01/09/14 07:33	50
Naphthalene	**100**	**J**	110	26	ug/Kg	☼	01/07/14 15:49	01/09/14 07:33	50
n-Butylbenzene	**98**		53	6.9	ug/Kg	☼	01/07/14 15:49	01/09/14 07:33	50
N-Propylbenzene	**48**	**J**	110	9.4	ug/Kg	☼	01/07/14 15:49	01/09/14 07:33	50
p-Isopropyltoluene	**45**	**J**	110	9.9	ug/Kg	☼	01/07/14 15:49	01/09/14 07:33	50
sec-Butylbenzene	<8.2		53	8.2	ug/Kg	☼	01/07/14 15:49	01/09/14 07:33	50
Styrene	<5.3		53	5.3	ug/Kg	☼	01/07/14 15:49	01/09/14 07:33	50
tert-Butylbenzene	<7.3		53	7.3	ug/Kg	☼	01/07/14 15:49	01/09/14 07:33	50
Tetrachloroethene	**460**		53	8.9	ug/Kg	☼	01/07/14 15:49	01/09/14 07:33	50
Toluene	<6.1		13	6.1	ug/Kg	☼	01/07/14 15:49	01/09/14 07:33	50
trans-1,2-Dichloroethene	<13		53	13	ug/Kg	☼	01/07/14 15:49	01/09/14 07:33	50
trans-1,3-Dichloropropene	<11		53	11	ug/Kg	☼	01/07/14 15:49	01/09/14 07:33	50
Trichloroethene	<9.9		27	9.9	ug/Kg	☼	01/07/14 15:49	01/09/14 07:33	50
Trichlorofluoromethane	<22		110	22	ug/Kg	☼	01/07/14 15:49	01/09/14 07:33	50
Vinyl chloride	<5.6		13	5.6	ug/Kg	☼	01/07/14 15:49	01/09/14 07:33	50
Xylenes, Total	**60**		27	3.7	ug/Kg	☼	01/07/14 15:49	01/09/14 07:33	50

Client Sample ID: B-179 (9-11)

Lab Sample ID: 500-69634-16

Date Collected: 01/03/14 14:00

Matrix: Solid

Date Received: 01/07/14 10:10

Percent Solids: 97.0

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	93		75 - 125	01/07/14 15:49	01/09/14 07:33	50
4-Bromofluorobenzene (Surr)	113		75 - 120	01/07/14 15:49	01/09/14 07:33	50
Dibromofluoromethane	82		75 - 120	01/07/14 15:49	01/09/14 07:33	50
Toluene-d8 (Surr)	98		75 - 120	01/07/14 15:49	01/09/14 07:33	50

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<110000		330000	110000	ug/Kg	☼	01/08/14 07:03	01/12/14 07:50	20000
PCB-1221	<140000		330000	140000	ug/Kg	☼	01/08/14 07:03	01/12/14 07:50	20000
PCB-1232	<140000		330000	140000	ug/Kg	☼	01/08/14 07:03	01/12/14 07:50	20000
PCB-1242	**3400000**		330000	110000	ug/Kg	☼	01/08/14 07:03	01/12/14 07:50	20000
PCB-1248	<130000		330000	130000	ug/Kg	☼	01/08/14 07:03	01/12/14 07:50	20000
PCB-1254	<70000		330000	70000	ug/Kg	☼	01/08/14 07:03	01/12/14 07:50	20000
PCB-1260	<160000		330000	160000	ug/Kg	☼	01/08/14 07:03	01/12/14 07:50	20000

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	0	D	50 - 116	01/08/14 07:03	01/12/14 07:50	20000
DCB Decachlorobiphenyl	0	D	48 - 142	01/08/14 07:03	01/12/14 07:50	20000

Client Sample ID: B-181 (18.1-20.1)

Lab Sample ID: 500-69634-17

Date Collected: 01/03/14 14:30

Matrix: Solid

Date Received: 01/07/14 10:10

Percent Solids: 96.6

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<29		170	29	ug/Kg	☼	01/03/14 14:30	01/09/14 07:57	50
1,1,1-Trichloroethane	<17		83	17	ug/Kg	☼	01/03/14 14:30	01/09/14 07:57	50
1,1,2,2-Tetrachloroethane	<19		83	19	ug/Kg	☼	01/03/14 14:30	01/09/14 07:57	50
1,1,2-Trichloroethane	<23		83	23	ug/Kg	☼	01/03/14 14:30	01/09/14 07:57	50
1,1-Dichloroethane	<15		83	15	ug/Kg	☼	01/03/14 14:30	01/09/14 07:57	50
1,1-Dichloroethene	<25		83	25	ug/Kg	☼	01/03/14 14:30	01/09/14 07:57	50
1,1-Dichloropropene	<28		83	28	ug/Kg	☼	01/03/14 14:30	01/09/14 07:57	50
1,2,3-Trichlorobenzene	<29		170	29	ug/Kg	☼	01/03/14 14:30	01/09/14 07:57	50
1,2,3-Trichloropropane	<47		170	47	ug/Kg	☼	01/03/14 14:30	01/09/14 07:57	50
1,2,4-Trichlorobenzene	<31		170	31	ug/Kg	☼	01/03/14 14:30	01/09/14 07:57	50
1,2,4-Trimethylbenzene	**93**	**J**	170	17	ug/Kg	☼	01/03/14 14:30	01/09/14 07:57	50
1,2-Dibromo-3-Chloropropane	<72		170	72	ug/Kg	☼	01/03/14 14:30	01/09/14 07:57	50
1,2-Dibromoethane	<26		170	26	ug/Kg	☼	01/03/14 14:30	01/09/14 07:57	50
1,2-Dichlorobenzene	<17		170	17	ug/Kg	☼	01/03/14 14:30	01/09/14 07:57	50
1,2-Dichloroethane	<24		83	24	ug/Kg	☼	01/03/14 14:30	01/09/14 07:57	50
1,2-Dichloropropane	<16		83	16	ug/Kg	☼	01/03/14 14:30	01/09/14 07:57	50
1,3,5-Trimethylbenzene	<17		170	17	ug/Kg	☼	01/03/14 14:30	01/09/14 07:57	50
1,3-Dichlorobenzene	<21		170	21	ug/Kg	☼	01/03/14 14:30	01/09/14 07:57	50
1,3-Dichloropropane	<11		83	11	ug/Kg	☼	01/03/14 14:30	01/09/14 07:57	50
1,4-Dichlorobenzene	<14		170	14	ug/Kg	☼	01/03/14 14:30	01/09/14 07:57	50
2,2-Dichloropropane	<26		83	26	ug/Kg	☼	01/03/14 14:30	01/09/14 07:57	50
2-Chlorotoluene	<17		83	17	ug/Kg	☼	01/03/14 14:30	01/09/14 07:57	50
4-Chlorotoluene	<16		83	16	ug/Kg	☼	01/03/14 14:30	01/09/14 07:57	50
Benzene	<6.1		21	6.1	ug/Kg	☼	01/03/14 14:30	01/09/14 07:57	50
Bromobenzene	<35		170	35	ug/Kg	☼	01/03/14 14:30	01/09/14 07:57	50
Bromochloromethane	<31		170	31	ug/Kg	☼	01/03/14 14:30	01/09/14 07:57	50

Client Sample ID: B-181 (18.1-20.1)
Date Collected: 01/03/14 14:30
Date Received: 01/07/14 10:10

Lab Sample ID: 500-69634-17
Matrix: Solid
Percent Solids: 96.6

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromodichloromethane	<28		170	28	ug/Kg	☼	01/03/14 14:30	01/09/14 07:57	50
Bromoform	<36		170	36	ug/Kg	☼	01/03/14 14:30	01/09/14 07:57	50
Bromomethane	<56		170	56	ug/Kg	☼	01/03/14 14:30	01/09/14 07:57	50
Carbon tetrachloride	<21		83	21	ug/Kg	☼	01/03/14 14:30	01/09/14 07:57	50
Chlorobenzene	<12		83	12	ug/Kg	☼	01/03/14 14:30	01/09/14 07:57	50
Chloroethane	<36		170	36	ug/Kg	☼	01/03/14 14:30	01/09/14 07:57	50
Chloroform	<17		83	17	ug/Kg	☼	01/03/14 14:30	01/09/14 07:57	50
Chloromethane	<38		170	38	ug/Kg	☼	01/03/14 14:30	01/09/14 07:57	50
cis-1,2-Dichloroethene	**220**		83	10	ug/Kg	☼	01/03/14 14:30	01/09/14 07:57	50
cis-1,3-Dichloropropene	<15		83	15	ug/Kg	☼	01/03/14 14:30	01/09/14 07:57	50
Dibromochloromethane	<29		170	29	ug/Kg	☼	01/03/14 14:30	01/09/14 07:57	50
Dibromomethane	<40		170	40	ug/Kg	☼	01/03/14 14:30	01/09/14 07:57	50
Dichlorodifluoromethane	<42	*	170	42	ug/Kg	☼	01/03/14 14:30	01/09/14 07:57	50
Ethylbenzene	<10		21	10	ug/Kg	☼	01/03/14 14:30	01/09/14 07:57	50
Hexachlorobutadiene	<29		170	29	ug/Kg	☼	01/03/14 14:30	01/09/14 07:57	50
Isopropyl ether	<12		170	12	ug/Kg	☼	01/03/14 14:30	01/09/14 07:57	50
Isopropylbenzene	<21		170	21	ug/Kg	☼	01/03/14 14:30	01/09/14 07:57	50
Methyl tert-butyl ether	<36		170	36	ug/Kg	☼	01/03/14 14:30	01/09/14 07:57	50
Methylene Chloride	<56		410	56	ug/Kg	☼	01/03/14 14:30	01/09/14 07:57	50
Naphthalene	<41		170	41	ug/Kg	☼	01/03/14 14:30	01/09/14 07:57	50
n-Butylbenzene	<11		83	11	ug/Kg	☼	01/03/14 14:30	01/09/14 07:57	50
N-Propylbenzene	<14		170	14	ug/Kg	☼	01/03/14 14:30	01/09/14 07:57	50
p-Isopropyltoluene	<15		170	15	ug/Kg	☼	01/03/14 14:30	01/09/14 07:57	50
sec-Butylbenzene	<13		83	13	ug/Kg	☼	01/03/14 14:30	01/09/14 07:57	50
Styrene	<8.2		83	8.2	ug/Kg	☼	01/03/14 14:30	01/09/14 07:57	50
tert-Butylbenzene	<11		83	11	ug/Kg	☼	01/03/14 14:30	01/09/14 07:57	50
Tetrachloroethene	**3100**		83	14	ug/Kg	☼	01/03/14 14:30	01/09/14 07:57	50
Toluene	<9.5		21	9.5	ug/Kg	☼	01/03/14 14:30	01/09/14 07:57	50
trans-1,2-Dichloroethene	<21		83	21	ug/Kg	☼	01/03/14 14:30	01/09/14 07:57	50
trans-1,3-Dichloropropene	<17		83	17	ug/Kg	☼	01/03/14 14:30	01/09/14 07:57	50
Trichloroethene	**39**	**J**	41	15	ug/Kg	☼	01/03/14 14:30	01/09/14 07:57	50
Trichlorofluoromethane	<34		170	34	ug/Kg	☼	01/03/14 14:30	01/09/14 07:57	50
Vinyl chloride	**27**		21	8.6	ug/Kg	☼	01/03/14 14:30	01/09/14 07:57	50
Xylenes, Total	<5.7		41	5.7	ug/Kg	☼	01/03/14 14:30	01/09/14 07:57	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*96*		*75 - 125*	*01/03/14 14:30*	*01/09/14 07:57*	*50*
4-Bromofluorobenzene (Surr)	*114*		*75 - 120*	*01/03/14 14:30*	*01/09/14 07:57*	*50*
Dibromofluoromethane	*82*		*75 - 120*	*01/03/14 14:30*	*01/09/14 07:57*	*50*
Toluene-d8 (Surr)	*97*		*75 - 120*	*01/03/14 14:30*	*01/09/14 07:57*	*50*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<2900		8100	2900	ug/Kg	☼	01/08/14 07:03	01/12/14 08:04	500
PCB-1221	<3600		8100	3600	ug/Kg	☼	01/08/14 07:03	01/12/14 08:04	500
PCB-1232	<3500		8100	3500	ug/Kg	☼	01/08/14 07:03	01/12/14 08:04	500
PCB-1242	**82000**		8100	2700	ug/Kg	☼	01/08/14 07:03	01/12/14 08:04	500
PCB-1248	<3200		8100	3200	ug/Kg	☼	01/08/14 07:03	01/12/14 08:04	500
PCB-1254	<1800		8100	1800	ug/Kg	☼	01/08/14 07:03	01/12/14 08:04	500
PCB-1260	<4000		8100	4000	ug/Kg	☼	01/08/14 07:03	01/12/14 08:04	500

Client Sample ID: B-181 (18.1-20.1)

Lab Sample ID: 500-69634-17

Date Collected: 01/03/14 14:30
Matrix: Solid
Date Received: 01/07/14 10:10
Percent Solids: 96.6

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*0*	*D*	*50 - 116*	*01/08/14 07:03*	*01/12/14 08:04*	*500*
DCB Decachlorobiphenyl	*0*	*D*	*48 - 142*	*01/08/14 07:03*	*01/12/14 08:04*	*500*

Client Sample ID: B-158 (15-17)

Lab Sample ID: 500-69634-18

Date Collected: 01/03/14 15:15
Matrix: Solid
Date Received: 01/07/14 10:10
Percent Solids: 94.6

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<30		170	30	ug/Kg	☼	01/03/14 15:15	01/09/14 08:22	50
1,1,1-Trichloroethane	<17		85	17	ug/Kg	☼	01/03/14 15:15	01/09/14 08:22	50
1,1,2,2-Tetrachloroethane	<20		85	20	ug/Kg	☼	01/03/14 15:15	01/09/14 08:22	50
1,1,2-Trichloroethane	<24		85	24	ug/Kg	☼	01/03/14 15:15	01/09/14 08:22	50
1,1-Dichloroethane	<16		85	16	ug/Kg	☼	01/03/14 15:15	01/09/14 08:22	50
1,1-Dichloroethene	<26		85	26	ug/Kg	☼	01/03/14 15:15	01/09/14 08:22	50
1,1-Dichloropropene	<29		85	29	ug/Kg	☼	01/03/14 15:15	01/09/14 08:22	50
1,2,3-Trichlorobenzene	**470**		170	30	ug/Kg	☼	01/03/14 15:15	01/09/14 08:22	50
1,2,3-Trichloropropane	<49		170	49	ug/Kg	☼	01/03/14 15:15	01/09/14 08:22	50
1,2,4-Trichlorobenzene	**340**		170	32	ug/Kg	☼	01/03/14 15:15	01/09/14 08:22	50
1,2,4-Trimethylbenzene	**320**		170	18	ug/Kg	☼	01/03/14 15:15	01/09/14 08:22	50
1,2-Dibromo-3-Chloropropane	<74		170	74	ug/Kg	☼	01/03/14 15:15	01/09/14 08:22	50
1,2-Dibromoethane	<27		170	27	ug/Kg	☼	01/03/14 15:15	01/09/14 08:22	50
1,2-Dichlorobenzene	**500**		170	17	ug/Kg	☼	01/03/14 15:15	01/09/14 08:22	50
1,2-Dichloroethane	<24		85	24	ug/Kg	☼	01/03/14 15:15	01/09/14 08:22	50
1,2-Dichloropropane	<17		85	17	ug/Kg	☼	01/03/14 15:15	01/09/14 08:22	50
1,3,5-Trimethylbenzene	**86**	**J**	170	18	ug/Kg	☼	01/03/14 15:15	01/09/14 08:22	50
1,3-Dichlorobenzene	**370**		170	22	ug/Kg	☼	01/03/14 15:15	01/09/14 08:22	50
1,3-Dichloropropane	<11		85	11	ug/Kg	☼	01/03/14 15:15	01/09/14 08:22	50
1,4-Dichlorobenzene	**200**		170	15	ug/Kg	☼	01/03/14 15:15	01/09/14 08:22	50
2,2-Dichloropropane	<27		85	27	ug/Kg	☼	01/03/14 15:15	01/09/14 08:22	50
2-Chlorotoluene	<18		85	18	ug/Kg	☼	01/03/14 15:15	01/09/14 08:22	50
4-Chlorotoluene	<17		85	17	ug/Kg	☼	01/03/14 15:15	01/09/14 08:22	50
Benzene	<6.3		21	6.3	ug/Kg	☼	01/03/14 15:15	01/09/14 08:22	50
Bromobenzene	<36		170	36	ug/Kg	☼	01/03/14 15:15	01/09/14 08:22	50
Bromochloromethane	<32		170	32	ug/Kg	☼	01/03/14 15:15	01/09/14 08:22	50
Bromodichloromethane	<29		170	29	ug/Kg	☼	01/03/14 15:15	01/09/14 08:22	50
Bromoform	<38		170	38	ug/Kg	☼	01/03/14 15:15	01/09/14 08:22	50
Bromomethane	<58		170	58	ug/Kg	☼	01/03/14 15:15	01/09/14 08:22	50
Carbon tetrachloride	<22		85	22	ug/Kg	☼	01/03/14 15:15	01/09/14 08:22	50
Chlorobenzene	<12		85	12	ug/Kg	☼	01/03/14 15:15	01/09/14 08:22	50
Chloroethane	<37		170	37	ug/Kg	☼	01/03/14 15:15	01/09/14 08:22	50
Chloroform	<17		85	17	ug/Kg	☼	01/03/14 15:15	01/09/14 08:22	50
Chloromethane	<39		170	39	ug/Kg	☼	01/03/14 15:15	01/09/14 08:22	50
cis-1,2-Dichloroethene	**230**		85	10	ug/Kg	☼	01/03/14 15:15	01/09/14 08:22	50
cis-1,3-Dichloropropene	<15		85	15	ug/Kg	☼	01/03/14 15:15	01/09/14 08:22	50
Dibromochloromethane	<30		170	30	ug/Kg	☼	01/03/14 15:15	01/09/14 08:22	50
Dibromomethane	<41		170	41	ug/Kg	☼	01/03/14 15:15	01/09/14 08:22	50
Dichlorodifluoromethane	<44	*	170	44	ug/Kg	☼	01/03/14 15:15	01/09/14 08:22	50
Ethylbenzene	<11		21	11	ug/Kg	☼	01/03/14 15:15	01/09/14 08:22	50
Hexachlorobutadiene	<30		170	30	ug/Kg	☼	01/03/14 15:15	01/09/14 08:22	50

Client Sample ID: B-158 (15-17)

Lab Sample ID: 500-69634-18

Date Collected: 01/03/14 15:15
Matrix: Solid
Date Received: 01/07/14 10:10
Percent Solids: 94.6

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isopropyl ether	<13		170	13	ug/Kg	☼	01/03/14 15:15	01/09/14 08:22	50
Isopropylbenzene	**410**		170	21	ug/Kg	☼	01/03/14 15:15	01/09/14 08:22	50
Methyl tert-butyl ether	<37		170	37	ug/Kg	☼	01/03/14 15:15	01/09/14 08:22	50
Methylene Chloride	<58		430	58	ug/Kg	☼	01/03/14 15:15	01/09/14 08:22	50
Naphthalene	**110**	**J**	170	42	ug/Kg	☼	01/03/14 15:15	01/09/14 08:22	50
n-Butylbenzene	**85**		85	11	ug/Kg	☼	01/03/14 15:15	01/09/14 08:22	50
N-Propylbenzene	<15		170	15	ug/Kg	☼	01/03/14 15:15	01/09/14 08:22	50
p-Isopropyltoluene	<16		170	16	ug/Kg	☼	01/03/14 15:15	01/09/14 08:22	50
sec-Butylbenzene	<13		85	13	ug/Kg	☼	01/03/14 15:15	01/09/14 08:22	50
Styrene	<8.4		85	8.4	ug/Kg	☼	01/03/14 15:15	01/09/14 08:22	50
tert-Butylbenzene	<12		85	12	ug/Kg	☼	01/03/14 15:15	01/09/14 08:22	50
Tetrachloroethene	**640**		85	14	ug/Kg	☼	01/03/14 15:15	01/09/14 08:22	50
Toluene	**17**	**J**	21	9.8	ug/Kg	☼	01/03/14 15:15	01/09/14 08:22	50
trans-1,2-Dichloroethene	<21		85	21	ug/Kg	☼	01/03/14 15:15	01/09/14 08:22	50
trans-1,3-Dichloropropene	<18		85	18	ug/Kg	☼	01/03/14 15:15	01/09/14 08:22	50
Trichloroethene	**40**	**J**	43	16	ug/Kg	☼	01/03/14 15:15	01/09/14 08:22	50
Trichlorofluoromethane	<35		170	35	ug/Kg	☼	01/03/14 15:15	01/09/14 08:22	50
Vinyl chloride	<8.9		21	8.9	ug/Kg	☼	01/03/14 15:15	01/09/14 08:22	50
Xylenes, Total	**31**	**J**	43	5.8	ug/Kg	☼	01/03/14 15:15	01/09/14 08:22	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*99*		*75 - 125*	*01/03/14 15:15*	*01/09/14 08:22*	*50*
4-Bromofluorobenzene (Surr)	*109*		*75 - 120*	*01/03/14 15:15*	*01/09/14 08:22*	*50*
Dibromofluoromethane	*83*		*75 - 120*	*01/03/14 15:15*	*01/09/14 08:22*	*50*
Toluene-d8 (Surr)	*98*		*75 - 120*	*01/03/14 15:15*	*01/09/14 08:22*	*50*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<30000		85000	30000	ug/Kg	☼	01/08/14 07:03	01/10/14 18:18	5000
PCB-1221	<37000		85000	37000	ug/Kg	☼	01/08/14 07:03	01/10/14 18:18	5000
PCB-1232	<37000		85000	37000	ug/Kg	☼	01/08/14 07:03	01/10/14 18:18	5000
PCB-1242	**1100000**		85000	28000	ug/Kg	☼	01/08/14 07:03	01/10/14 18:18	5000
PCB-1248	<33000		85000	33000	ug/Kg	☼	01/08/14 07:03	01/10/14 18:18	5000
PCB-1254	<18000		85000	18000	ug/Kg	☼	01/08/14 07:03	01/10/14 18:18	5000
PCB-1260	<42000		85000	42000	ug/Kg	☼	01/08/14 07:03	01/10/14 18:18	5000

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*0*	*D*	*50 - 116*	*01/08/14 07:03*	*01/10/14 18:18*	*5000*
DCB Decachlorobiphenyl	*0*	*D*	*48 - 142*	*01/08/14 07:03*	*01/10/14 18:18*	*5000*

Client Sample ID: B-179 (21.1-23.1)

Lab Sample ID: 500-69634-19

Date Collected: 01/04/14 08:20
Matrix: Solid
Date Received: 01/07/14 10:10
Percent Solids: 91.1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<30		180	30	ug/Kg	☼	01/04/14 08:20	01/09/14 08:47	50
1,1,1-Trichloroethane	<18		88	18	ug/Kg	☼	01/04/14 08:20	01/09/14 08:47	50
1,1,2,2-Tetrachloroethane	<21		88	21	ug/Kg	☼	01/04/14 08:20	01/09/14 08:47	50
1,1,2-Trichloroethane	<25		88	25	ug/Kg	☼	01/04/14 08:20	01/09/14 08:47	50

Client: ARCADIS U.S., Inc.
Project/Site: MadisonKipp

TestAmerica Job ID: 500-69634-1

Client Sample ID: B-179 (21.1-23.1)
Date Collected: 01/04/14 08:20
Date Received: 01/07/14 10:10

Lab Sample ID: 500-69634-19
Matrix: Solid
Percent Solids: 91.1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	<16		88	16	ug/Kg	☼	01/04/14 08:20	01/09/14 08:47	50
1,1-Dichloroethene	<27		88	27	ug/Kg	☼	01/04/14 08:20	01/09/14 08:47	50
1,1-Dichloropropene	<30		88	30	ug/Kg	☼	01/04/14 08:20	01/09/14 08:47	50
1,2,3-Trichlorobenzene	<31		180	31	ug/Kg	☼	01/04/14 08:20	01/09/14 08:47	50
1,2,3-Trichloropropane	<51		180	51	ug/Kg	☼	01/04/14 08:20	01/09/14 08:47	50
1,2,4-Trichlorobenzene	<33		180	33	ug/Kg	☼	01/04/14 08:20	01/09/14 08:47	50
1,2,4-Trimethylbenzene	<19		180	19	ug/Kg	☼	01/04/14 08:20	01/09/14 08:47	50
1,2-Dibromo-3-Chloropropane	<77		180	77	ug/Kg	☼	01/04/14 08:20	01/09/14 08:47	50
1,2-Dibromoethane	<28		180	28	ug/Kg	☼	01/04/14 08:20	01/09/14 08:47	50
1,2-Dichlorobenzene	<18		180	18	ug/Kg	☼	01/04/14 08:20	01/09/14 08:47	50
1,2-Dichloroethane	<25		88	25	ug/Kg	☼	01/04/14 08:20	01/09/14 08:47	50
1,2-Dichloropropane	<17		88	17	ug/Kg	☼	01/04/14 08:20	01/09/14 08:47	50
1,3,5-Trimethylbenzene	<18		180	18	ug/Kg	☼	01/04/14 08:20	01/09/14 08:47	50
1,3-Dichlorobenzene	<23		180	23	ug/Kg	☼	01/04/14 08:20	01/09/14 08:47	50
1,3-Dichloropropane	<12		88	12	ug/Kg	☼	01/04/14 08:20	01/09/14 08:47	50
1,4-Dichlorobenzene	<15		180	15	ug/Kg	☼	01/04/14 08:20	01/09/14 08:47	50
2,2-Dichloropropane	<28		88	28	ug/Kg	☼	01/04/14 08:20	01/09/14 08:47	50
2-Chlorotoluene	<18		88	18	ug/Kg	☼	01/04/14 08:20	01/09/14 08:47	50
4-Chlorotoluene	<17		88	17	ug/Kg	☼	01/04/14 08:20	01/09/14 08:47	50
Benzene	<6.5		22	6.5	ug/Kg	☼	01/04/14 08:20	01/09/14 08:47	50
Bromobenzene	<37		180	37	ug/Kg	☼	01/04/14 08:20	01/09/14 08:47	50
Bromochloromethane	<33		180	33	ug/Kg	☼	01/04/14 08:20	01/09/14 08:47	50
Bromodichloromethane	<30		180	30	ug/Kg	☼	01/04/14 08:20	01/09/14 08:47	50
Bromoform	<39		180	39	ug/Kg	☼	01/04/14 08:20	01/09/14 08:47	50
Bromomethane	<60		180	60	ug/Kg	☼	01/04/14 08:20	01/09/14 08:47	50
Carbon tetrachloride	<23		88	23	ug/Kg	☼	01/04/14 08:20	01/09/14 08:47	50
Chlorobenzene	<13		88	13	ug/Kg	☼	01/04/14 08:20	01/09/14 08:47	50
Chloroethane	<38		180	38	ug/Kg	☼	01/04/14 08:20	01/09/14 08:47	50
Chloroform	<18		88	18	ug/Kg	☼	01/04/14 08:20	01/09/14 08:47	50
Chloromethane	<41		180	41	ug/Kg	☼	01/04/14 08:20	01/09/14 08:47	50
cis-1,2-Dichloroethene	<11		88	11	ug/Kg	☼	01/04/14 08:20	01/09/14 08:47	50
cis-1,3-Dichloropropene	<16		88	16	ug/Kg	☼	01/04/14 08:20	01/09/14 08:47	50
Dibromochloromethane	<30		180	30	ug/Kg	☼	01/04/14 08:20	01/09/14 08:47	50
Dibromomethane	<42		180	42	ug/Kg	☼	01/04/14 08:20	01/09/14 08:47	50
Dichlorodifluoromethane	<45		180	45	ug/Kg	☼	01/04/14 08:20	01/09/14 08:47	50
Ethylbenzene	<11		22	11	ug/Kg	☼	01/04/14 08:20	01/09/14 08:47	50
Hexachlorobutadiene	<30		180	30	ug/Kg	☼	01/04/14 08:20	01/09/14 08:47	50
Isopropyl ether	<13		180	13	ug/Kg	☼	01/04/14 08:20	01/09/14 08:47	50
Isopropylbenzene	<22		180	22	ug/Kg	☼	01/04/14 08:20	01/09/14 08:47	50
Methyl tert-butyl ether	<38		180	38	ug/Kg	☼	01/04/14 08:20	01/09/14 08:47	50
Methylene Chloride	<60		440	60	ug/Kg	☼	01/04/14 08:20	01/09/14 08:47	50
Naphthalene	<43		180	43	ug/Kg	☼	01/04/14 08:20	01/09/14 08:47	50
n-Butylbenzene	<11		88	11	ug/Kg	☼	01/04/14 08:20	01/09/14 08:47	50
N-Propylbenzene	<15		180	15	ug/Kg	☼	01/04/14 08:20	01/09/14 08:47	50
p-Isopropyltoluene	<16		180	16	ug/Kg	☼	01/04/14 08:20	01/09/14 08:47	50
sec-Butylbenzene	<14		88	14	ug/Kg	☼	01/04/14 08:20	01/09/14 08:47	50
Styrene	<8.7		88	8.7	ug/Kg	☼	01/04/14 08:20	01/09/14 08:47	50
tert-Butylbenzene	<12		88	12	ug/Kg	☼	01/04/14 08:20	01/09/14 08:47	50
Tetrachloroethene	<15		88	15	ug/Kg	☼	01/04/14 08:20	01/09/14 08:47	50

Client Sample ID: B-179 (21.1-23.1)

Lab Sample ID: 500-69634-19

Date Collected: 01/04/14 08:20
Matrix: Solid
Date Received: 01/07/14 10:10
Percent Solids: 91.1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	<10		22	10	ug/Kg	☼	01/04/14 08:20	01/09/14 08:47	50
trans-1,2-Dichloroethene	<22		88	22	ug/Kg	☼	01/04/14 08:20	01/09/14 08:47	50
trans-1,3-Dichloropropene	<18		88	18	ug/Kg	☼	01/04/14 08:20	01/09/14 08:47	50
Trichloroethene	<16		44	16	ug/Kg	☼	01/04/14 08:20	01/09/14 08:47	50
Trichlorofluoromethane	<37		180	37	ug/Kg	☼	01/04/14 08:20	01/09/14 08:47	50
Vinyl chloride	<9.2		22	9.2	ug/Kg	☼	01/04/14 08:20	01/09/14 08:47	50
Xylenes, Total	<6.0		44	6.0	ug/Kg	☼	01/04/14 08:20	01/09/14 08:47	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*97*		*75 - 125*	*01/04/14 08:20*	*01/09/14 08:47*	*50*
4-Bromofluorobenzene (Surr)	*111*		*75 - 120*	*01/04/14 08:20*	*01/09/14 08:47*	*50*
Dibromofluoromethane	*82*		*75 - 120*	*01/04/14 08:20*	*01/09/14 08:47*	*50*
Toluene-d8 (Surr)	*98*		*75 - 120*	*01/04/14 08:20*	*01/09/14 08:47*	*50*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<6.3		18	6.3	ug/Kg	☼	01/08/14 07:03	01/10/14 13:38	1
PCB-1221	<7.8		18	7.8	ug/Kg	☼	01/08/14 07:03	01/10/14 13:38	1
PCB-1232	<7.7		18	7.7	ug/Kg	☼	01/08/14 07:03	01/10/14 13:38	1
PCB-1242	**110**		18	5.8	ug/Kg	☼	01/08/14 07:03	01/10/14 13:38	1
PCB-1248	<7.0		18	7.0	ug/Kg	☼	01/08/14 07:03	01/10/14 13:38	1
PCB-1254	<3.8		18	3.8	ug/Kg	☼	01/08/14 07:03	01/10/14 13:38	1
PCB-1260	<8.7		18	8.7	ug/Kg	☼	01/08/14 07:03	01/10/14 13:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*52*		*50 - 116*	*01/08/14 07:03*	*01/10/14 13:38*	*1*
DCB Decachlorobiphenyl	*71*		*48 - 142*	*01/08/14 07:03*	*01/10/14 13:38*	*1*

Client Sample ID: B-179 (4-6)

Lab Sample ID: 500-69634-20

Date Collected: 01/03/14 13:50
Matrix: Solid
Date Received: 01/07/14 10:10
Percent Solids: 83.5

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<39		220	39	ug/Kg	☼	01/03/14 13:50	01/09/14 14:46	50
1,1,1-Trichloroethane	<23		110	23	ug/Kg	☼	01/03/14 13:50	01/09/14 14:46	50
1,1,2,2-Tetrachloroethane	<26		110	26	ug/Kg	☼	01/03/14 13:50	01/09/14 14:46	50
1,1,2-Trichloroethane	<31		110	31	ug/Kg	☼	01/03/14 13:50	01/09/14 14:46	50
1,1-Dichloroethane	<21		110	21	ug/Kg	☼	01/03/14 13:50	01/09/14 14:46	50
1,1-Dichloroethene	<34		110	34	ug/Kg	☼	01/03/14 13:50	01/09/14 14:46	50
1,1-Dichloropropene	<39		110	39	ug/Kg	☼	01/03/14 13:50	01/09/14 14:46	50
1,2,3-Trichlorobenzene	<39		220	39	ug/Kg	☼	01/03/14 13:50	01/09/14 14:46	50
1,2,3-Trichloropropane	<64		220	64	ug/Kg	☼	01/03/14 13:50	01/09/14 14:46	50
1,2,4-Trichlorobenzene	<42		220	42	ug/Kg	☼	01/03/14 13:50	01/09/14 14:46	50
1,2,4-Trimethylbenzene	**320**		220	24	ug/Kg	☼	01/03/14 13:50	01/09/14 14:46	50
1,2-Dibromo-3-Chloropropane	<98		220	98	ug/Kg	☼	01/03/14 13:50	01/09/14 14:46	50
1,2-Dibromoethane	<35		220	35	ug/Kg	☼	01/03/14 13:50	01/09/14 14:46	50
1,2-Dichlorobenzene	<23		220	23	ug/Kg	☼	01/03/14 13:50	01/09/14 14:46	50
1,2-Dichloroethane	<32		110	32	ug/Kg	☼	01/03/14 13:50	01/09/14 14:46	50
1,2-Dichloropropane	<22		110	22	ug/Kg	☼	01/03/14 13:50	01/09/14 14:46	50

Client: ARCADIS U.S., Inc.
Project/Site: MadisonKipp

TestAmerica Job ID: 500-69634-1

Client Sample ID: B-179 (4-6)
Date Collected: 01/03/14 13:50
Date Received: 01/07/14 10:10

Lab Sample ID: 500-69634-20
Matrix: Solid
Percent Solids: 83.5

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3,5-Trimethylbenzene	**86**	**J**	220	23	ug/Kg	☼	01/03/14 13:50	01/09/14 14:46	50
1,3-Dichlorobenzene	<29		220	29	ug/Kg	☼	01/03/14 13:50	01/09/14 14:46	50
1,3-Dichloropropane	<15		110	15	ug/Kg	☼	01/03/14 13:50	01/09/14 14:46	50
1,4-Dichlorobenzene	<20		220	20	ug/Kg	☼	01/03/14 13:50	01/09/14 14:46	50
2,2-Dichloropropane	<35		110	35	ug/Kg	☼	01/03/14 13:50	01/09/14 14:46	50
2-Chlorotoluene	<23		110	23	ug/Kg	☼	01/03/14 13:50	01/09/14 14:46	50
4-Chlorotoluene	<22		110	22	ug/Kg	☼	01/03/14 13:50	01/09/14 14:46	50
Benzene	<8.3		28	8.3	ug/Kg	☼	01/03/14 13:50	01/09/14 14:46	50
Bromobenzene	<48		220	48	ug/Kg	☼	01/03/14 13:50	01/09/14 14:46	50
Bromochloromethane	<42		220	42	ug/Kg	☼	01/03/14 13:50	01/09/14 14:46	50
Bromodichloromethane	<38		220	38	ug/Kg	☼	01/03/14 13:50	01/09/14 14:46	50
Bromoform	<50		220	50	ug/Kg	☼	01/03/14 13:50	01/09/14 14:46	50
Bromomethane	<77		220	77	ug/Kg	☼	01/03/14 13:50	01/09/14 14:46	50
Carbon tetrachloride	<29		110	29	ug/Kg	☼	01/03/14 13:50	01/09/14 14:46	50
Chlorobenzene	<16		110	16	ug/Kg	☼	01/03/14 13:50	01/09/14 14:46	50
Chloroethane	<49		220	49	ug/Kg	☼	01/03/14 13:50	01/09/14 14:46	50
Chloroform	<23		110	23	ug/Kg	☼	01/03/14 13:50	01/09/14 14:46	50
Chloromethane	<52		220	52	ug/Kg	☼	01/03/14 13:50	01/09/14 14:46	50
cis-1,2-Dichloroethene	<14		110	14	ug/Kg	☼	01/03/14 13:50	01/09/14 14:46	50
cis-1,3-Dichloropropene	<20		110	20	ug/Kg	☼	01/03/14 13:50	01/09/14 14:46	50
Dibromochloromethane	<39		220	39	ug/Kg	☼	01/03/14 13:50	01/09/14 14:46	50
Dibromomethane	<54		220	54	ug/Kg	☼	01/03/14 13:50	01/09/14 14:46	50
Dichlorodifluoromethane	<58	*	220	58	ug/Kg	☼	01/03/14 13:50	01/09/14 14:46	50
Ethylbenzene	<14		28	14	ug/Kg	☼	01/03/14 13:50	01/09/14 14:46	50
Hexachlorobutadiene	<39		220	39	ug/Kg	☼	01/03/14 13:50	01/09/14 14:46	50
Isopropyl ether	<17		220	17	ug/Kg	☼	01/03/14 13:50	01/09/14 14:46	50
Isopropylbenzene	**440**		220	28	ug/Kg	☼	01/03/14 13:50	01/09/14 14:46	50
Methyl tert-butyl ether	<48		220	48	ug/Kg	☼	01/03/14 13:50	01/09/14 14:46	50
Methylene Chloride	<77		560	77	ug/Kg	☼	01/03/14 13:50	01/09/14 14:46	50
Naphthalene	<55		220	55	ug/Kg	☼	01/03/14 13:50	01/09/14 14:46	50
n-Butylbenzene	**89**	**J**	110	14	ug/Kg	☼	01/03/14 13:50	01/09/14 14:46	50
N-Propylbenzene	<20		220	20	ug/Kg	☼	01/03/14 13:50	01/09/14 14:46	50
p-Isopropyltoluene	<21		220	21	ug/Kg	☼	01/03/14 13:50	01/09/14 14:46	50
sec-Butylbenzene	<17		110	17	ug/Kg	☼	01/03/14 13:50	01/09/14 14:46	50
Styrene	<11		110	11	ug/Kg	☼	01/03/14 13:50	01/09/14 14:46	50
tert-Butylbenzene	<15		110	15	ug/Kg	☼	01/03/14 13:50	01/09/14 14:46	50
Tetrachloroethene	<19		110	19	ug/Kg	☼	01/03/14 13:50	01/09/14 14:46	50
Toluene	<13		28	13	ug/Kg	☼	01/03/14 13:50	01/09/14 14:46	50
trans-1,2-Dichloroethene	<28		110	28	ug/Kg	☼	01/03/14 13:50	01/09/14 14:46	50
trans-1,3-Dichloropropene	<23		110	23	ug/Kg	☼	01/03/14 13:50	01/09/14 14:46	50
Trichloroethene	<21		56	21	ug/Kg	☼	01/03/14 13:50	01/09/14 14:46	50
Trichlorofluoromethane	<47		220	47	ug/Kg	☼	01/03/14 13:50	01/09/14 14:46	50
Vinyl chloride	<12		28	12	ug/Kg	☼	01/03/14 13:50	01/09/14 14:46	50
Xylenes, Total	<7.7		56	7.7	ug/Kg	☼	01/03/14 13:50	01/09/14 14:46	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*75 - 125*	*01/03/14 13:50*	*01/09/14 14:46*	*50*
4-Bromofluorobenzene (Surr)	*109*		*75 - 120*	*01/03/14 13:50*	*01/09/14 14:46*	*50*
Dibromofluoromethane	*85*		*75 - 120*	*01/03/14 13:50*	*01/09/14 14:46*	*50*
Toluene-d8 (Surr)	*95*		*75 - 120*	*01/03/14 13:50*	*01/09/14 14:46*	*50*

Client: ARCADIS U.S., Inc.
Project/Site: MadisonKipp

TestAmerica Job ID: 500-69634-1

Client Sample ID: B-179 (4-6)

Lab Sample ID: 500-69634-20

Date Collected: 01/03/14 13:50
Matrix: Solid
Date Received: 01/07/14 10:10
Percent Solids: 83.5

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<66000		190000	66000	ug/Kg	☼	01/08/14 07:03	01/12/14 08:18	10000
PCB-1221	<83000		190000	83000	ug/Kg	☼	01/08/14 07:03	01/12/14 08:18	10000
PCB-1232	<82000		190000	82000	ug/Kg	☼	01/08/14 07:03	01/12/14 08:18	10000
PCB-1242	**2300000**		190000	62000	ug/Kg	☼	01/08/14 07:03	01/12/14 08:18	10000
PCB-1248	<74000		190000	74000	ug/Kg	☼	01/08/14 07:03	01/12/14 08:18	10000
PCB-1254	<41000		190000	41000	ug/Kg	☼	01/08/14 07:03	01/12/14 08:18	10000
PCB-1260	<92000		190000	92000	ug/Kg	☼	01/08/14 07:03	01/12/14 08:18	10000

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*0*	*D*	*50 - 116*	*01/08/14 07:03*	*01/12/14 08:18*	*10000*
DCB Decachlorobiphenyl	*0*	*D*	*48 - 142*	*01/08/14 07:03*	*01/12/14 08:18*	*10000*

Client Sample ID: B-191 (2-4)

Lab Sample ID: 500-69634-21

Date Collected: 01/04/14 10:20
Matrix: Solid
Date Received: 01/07/14 10:10
Percent Solids: 87.7

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<35		200	35	ug/Kg	☼	01/04/14 10:20	01/09/14 15:11	50
1,1,1-Trichloroethane	<20		100	20	ug/Kg	☼	01/04/14 10:20	01/09/14 15:11	50
1,1,2,2-Tetrachloroethane	<24		100	24	ug/Kg	☼	01/04/14 10:20	01/09/14 15:11	50
1,1,2-Trichloroethane	<28		100	28	ug/Kg	☼	01/04/14 10:20	01/09/14 15:11	50
1,1-Dichloroethane	<19		100	19	ug/Kg	☼	01/04/14 10:20	01/09/14 15:11	50
1,1-Dichloroethene	<31		100	31	ug/Kg	☼	01/04/14 10:20	01/09/14 15:11	50
1,1-Dichloropropene	<35		100	35	ug/Kg	☼	01/04/14 10:20	01/09/14 15:11	50
1,2,3-Trichlorobenzene	<36		200	36	ug/Kg	☼	01/04/14 10:20	01/09/14 15:11	50
1,2,3-Trichloropropane	<58		200	58	ug/Kg	☼	01/04/14 10:20	01/09/14 15:11	50
1,2,4-Trichlorobenzene	<38		200	38	ug/Kg	☼	01/04/14 10:20	01/09/14 15:11	50
1,2,4-Trimethylbenzene	<21		200	21	ug/Kg	☼	01/04/14 10:20	01/09/14 15:11	50
1,2-Dibromo-3-Chloropropane	<88		200	88	ug/Kg	☼	01/04/14 10:20	01/09/14 15:11	50
1,2-Dibromoethane	<32		200	32	ug/Kg	☼	01/04/14 10:20	01/09/14 15:11	50
1,2-Dichlorobenzene	<21		200	21	ug/Kg	☼	01/04/14 10:20	01/09/14 15:11	50
1,2-Dichloroethane	<29		100	29	ug/Kg	☼	01/04/14 10:20	01/09/14 15:11	50
1,2-Dichloropropane	<20		100	20	ug/Kg	☼	01/04/14 10:20	01/09/14 15:11	50
1,3,5-Trimethylbenzene	<21		200	21	ug/Kg	☼	01/04/14 10:20	01/09/14 15:11	50
1,3-Dichlorobenzene	<26		200	26	ug/Kg	☼	01/04/14 10:20	01/09/14 15:11	50
1,3-Dichloropropane	<14		100	14	ug/Kg	☼	01/04/14 10:20	01/09/14 15:11	50
1,4-Dichlorobenzene	<18		200	18	ug/Kg	☼	01/04/14 10:20	01/09/14 15:11	50
2,2-Dichloropropane	<32		100	32	ug/Kg	☼	01/04/14 10:20	01/09/14 15:11	50
2-Chlorotoluene	<21		100	21	ug/Kg	☼	01/04/14 10:20	01/09/14 15:11	50
4-Chlorotoluene	<20		100	20	ug/Kg	☼	01/04/14 10:20	01/09/14 15:11	50
Benzene	<7.5		25	7.5	ug/Kg	☼	01/04/14 10:20	01/09/14 15:11	50
Bromobenzene	<43		200	43	ug/Kg	☼	01/04/14 10:20	01/09/14 15:11	50
Bromochloromethane	<38		200	38	ug/Kg	☼	01/04/14 10:20	01/09/14 15:11	50
Bromodichloromethane	<34		200	34	ug/Kg	☼	01/04/14 10:20	01/09/14 15:11	50
Bromoform	<45		200	45	ug/Kg	☼	01/04/14 10:20	01/09/14 15:11	50
Bromomethane	<69		200	69	ug/Kg	☼	01/04/14 10:20	01/09/14 15:11	50
Carbon tetrachloride	<26		100	26	ug/Kg	☼	01/04/14 10:20	01/09/14 15:11	50
Chlorobenzene	<15		100	15	ug/Kg	☼	01/04/14 10:20	01/09/14 15:11	50
Chloroethane	<44		200	44	ug/Kg	☼	01/04/14 10:20	01/09/14 15:11	50

Client: ARCADIS U.S., Inc.
Project/Site: MadisonKipp

TestAmerica Job ID: 500-69634-1

Client Sample ID: B-191 (2-4)
Date Collected: 01/04/14 10:20
Date Received: 01/07/14 10:10

Lab Sample ID: 500-69634-21
Matrix: Solid
Percent Solids: 87.7

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroform	<21		100	21	ug/Kg	☼	01/04/14 10:20	01/09/14 15:11	50
Chloromethane	<47		200	47	ug/Kg	☼	01/04/14 10:20	01/09/14 15:11	50
cis-1,2-Dichloroethene	<12		100	12	ug/Kg	☼	01/04/14 10:20	01/09/14 15:11	50
cis-1,3-Dichloropropene	<18		100	18	ug/Kg	☼	01/04/14 10:20	01/09/14 15:11	50
Dibromochloromethane	<35		200	35	ug/Kg	☼	01/04/14 10:20	01/09/14 15:11	50
Dibromomethane	<49		200	49	ug/Kg	☼	01/04/14 10:20	01/09/14 15:11	50
Dichlorodifluoromethane	<52	*	200	52	ug/Kg	☼	01/04/14 10:20	01/09/14 15:11	50
Ethylbenzene	<13		25	13	ug/Kg	☼	01/04/14 10:20	01/09/14 15:11	50
Hexachlorobutadiene	<35		200	35	ug/Kg	☼	01/04/14 10:20	01/09/14 15:11	50
Isopropyl ether	<15		200	15	ug/Kg	☼	01/04/14 10:20	01/09/14 15:11	50
Isopropylbenzene	<25		200	25	ug/Kg	☼	01/04/14 10:20	01/09/14 15:11	50
Methyl tert-butyl ether	<44		200	44	ug/Kg	☼	01/04/14 10:20	01/09/14 15:11	50
Methylene Chloride	<69		510	69	ug/Kg	☼	01/04/14 10:20	01/09/14 15:11	50
Naphthalene	<50		200	50	ug/Kg	☼	01/04/14 10:20	01/09/14 15:11	50
n-Butylbenzene	<13		100	13	ug/Kg	☼	01/04/14 10:20	01/09/14 15:11	50
N-Propylbenzene	<18		200	18	ug/Kg	☼	01/04/14 10:20	01/09/14 15:11	50
p-Isopropyltoluene	<19		200	19	ug/Kg	☼	01/04/14 10:20	01/09/14 15:11	50
sec-Butylbenzene	<16		100	16	ug/Kg	☼	01/04/14 10:20	01/09/14 15:11	50
Styrene	<10		100	10	ug/Kg	☼	01/04/14 10:20	01/09/14 15:11	50
tert-Butylbenzene	<14		100	14	ug/Kg	☼	01/04/14 10:20	01/09/14 15:11	50
Tetrachloroethene	<17		100	17	ug/Kg	☼	01/04/14 10:20	01/09/14 15:11	50
Toluene	<12		25	12	ug/Kg	☼	01/04/14 10:20	01/09/14 15:11	50
trans-1,2-Dichloroethene	<25		100	25	ug/Kg	☼	01/04/14 10:20	01/09/14 15:11	50
trans-1,3-Dichloropropene	<21		100	21	ug/Kg	☼	01/04/14 10:20	01/09/14 15:11	50
Trichloroethene	<19		51	19	ug/Kg	☼	01/04/14 10:20	01/09/14 15:11	50
Trichlorofluoromethane	<42		200	42	ug/Kg	☼	01/04/14 10:20	01/09/14 15:11	50
Vinyl chloride	<11		25	11	ug/Kg	☼	01/04/14 10:20	01/09/14 15:11	50
Xylenes, Total	<6.9		51	6.9	ug/Kg	☼	01/04/14 10:20	01/09/14 15:11	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*98*		*75 - 125*	*01/04/14 10:20*	*01/09/14 15:11*	*50*
4-Bromofluorobenzene (Surr)	*113*		*75 - 120*	*01/04/14 10:20*	*01/09/14 15:11*	*50*
Dibromofluoromethane	*82*		*75 - 120*	*01/04/14 10:20*	*01/09/14 15:11*	*50*
Toluene-d8 (Surr)	*97*		*75 - 120*	*01/04/14 10:20*	*01/09/14 15:11*	*50*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<330		920	330	ug/Kg	☼	01/08/14 07:19	01/10/14 19:00	50
PCB-1221	<410		920	410	ug/Kg	☼	01/08/14 07:19	01/10/14 19:00	50
PCB-1232	<400		920	400	ug/Kg	☼	01/08/14 07:19	01/10/14 19:00	50
PCB-1242	**6100**		920	300	ug/Kg	☼	01/08/14 07:19	01/10/14 19:00	50
PCB-1248	<360		920	360	ug/Kg	☼	01/08/14 07:19	01/10/14 19:00	50
PCB-1254	<200		920	200	ug/Kg	☼	01/08/14 07:19	01/10/14 19:00	50
PCB-1260	<450		920	450	ug/Kg	☼	01/08/14 07:19	01/10/14 19:00	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*0*	*D*	*50 - 116*	*01/08/14 07:19*	*01/10/14 19:00*	*50*
DCB Decachlorobiphenyl	*0*	*D*	*48 - 142*	*01/08/14 07:19*	*01/10/14 19:00*	*50*

Client: ARCADIS U.S., Inc.
Project/Site: MadisonKipp

TestAmerica Job ID: 500-69634-1

Client Sample ID: B-191 (13.7-15.7)
Date Collected: 01/04/14 10:40
Date Received: 01/07/14 10:10

Lab Sample ID: 500-69634-22
Matrix: Solid
Percent Solids: 94.3

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<29		170	29	ug/Kg	☼	01/04/14 10:40	01/09/14 15:35	50
1,1,1-Trichloroethane	<17		83	17	ug/Kg	☼	01/04/14 10:40	01/09/14 15:35	50
1,1,2,2-Tetrachloroethane	<20		83	20	ug/Kg	☼	01/04/14 10:40	01/09/14 15:35	50
1,1,2-Trichloroethane	<23		83	23	ug/Kg	☼	01/04/14 10:40	01/09/14 15:35	50
1,1-Dichloroethane	<15		83	15	ug/Kg	☼	01/04/14 10:40	01/09/14 15:35	50
1,1-Dichloroethene	<26		83	26	ug/Kg	☼	01/04/14 10:40	01/09/14 15:35	50
1,1-Dichloropropene	<29		83	29	ug/Kg	☼	01/04/14 10:40	01/09/14 15:35	50
1,2,3-Trichlorobenzene	<29		170	29	ug/Kg	☼	01/04/14 10:40	01/09/14 15:35	50
1,2,3-Trichloropropane	<48		170	48	ug/Kg	☼	01/04/14 10:40	01/09/14 15:35	50
1,2,4-Trichlorobenzene	<32		170	32	ug/Kg	☼	01/04/14 10:40	01/09/14 15:35	50
1,2,4-Trimethylbenzene	<18		170	18	ug/Kg	☼	01/04/14 10:40	01/09/14 15:35	50
1,2-Dibromo-3-Chloropropane	<73		170	73	ug/Kg	☼	01/04/14 10:40	01/09/14 15:35	50
1,2-Dibromoethane	<26		170	26	ug/Kg	☼	01/04/14 10:40	01/09/14 15:35	50
1,2-Dichlorobenzene	<17		170	17	ug/Kg	☼	01/04/14 10:40	01/09/14 15:35	50
1,2-Dichloroethane	<24		83	24	ug/Kg	☼	01/04/14 10:40	01/09/14 15:35	50
1,2-Dichloropropane	<16		83	16	ug/Kg	☼	01/04/14 10:40	01/09/14 15:35	50
1,3,5-Trimethylbenzene	<17		170	17	ug/Kg	☼	01/04/14 10:40	01/09/14 15:35	50
1,3-Dichlorobenzene	<21		170	21	ug/Kg	☼	01/04/14 10:40	01/09/14 15:35	50
1,3-Dichloropropane	<11		83	11	ug/Kg	☼	01/04/14 10:40	01/09/14 15:35	50
1,4-Dichlorobenzene	<15		170	15	ug/Kg	☼	01/04/14 10:40	01/09/14 15:35	50
2,2-Dichloropropane	<26		83	26	ug/Kg	☼	01/04/14 10:40	01/09/14 15:35	50
2-Chlorotoluene	<17		83	17	ug/Kg	☼	01/04/14 10:40	01/09/14 15:35	50
4-Chlorotoluene	<16		83	16	ug/Kg	☼	01/04/14 10:40	01/09/14 15:35	50
Benzene	<6.2		21	6.2	ug/Kg	☼	01/04/14 10:40	01/09/14 15:35	50
Bromobenzene	<35		170	35	ug/Kg	☼	01/04/14 10:40	01/09/14 15:35	50
Bromochloromethane	<32		170	32	ug/Kg	☼	01/04/14 10:40	01/09/14 15:35	50
Bromodichloromethane	<28		170	28	ug/Kg	☼	01/04/14 10:40	01/09/14 15:35	50
Bromoform	<37		170	37	ug/Kg	☼	01/04/14 10:40	01/09/14 15:35	50
Bromomethane	<57		170	57	ug/Kg	☼	01/04/14 10:40	01/09/14 15:35	50
Carbon tetrachloride	<21		83	21	ug/Kg	☼	01/04/14 10:40	01/09/14 15:35	50
Chlorobenzene	<12		83	12	ug/Kg	☼	01/04/14 10:40	01/09/14 15:35	50
Chloroethane	<36		170	36	ug/Kg	☼	01/04/14 10:40	01/09/14 15:35	50
Chloroform	<17		83	17	ug/Kg	☼	01/04/14 10:40	01/09/14 15:35	50
Chloromethane	<39		170	39	ug/Kg	☼	01/04/14 10:40	01/09/14 15:35	50
cis-1,2-Dichloroethene	<10		83	10	ug/Kg	☼	01/04/14 10:40	01/09/14 15:35	50
cis-1,3-Dichloropropene	<15		83	15	ug/Kg	☼	01/04/14 10:40	01/09/14 15:35	50
Dibromochloromethane	<29		170	29	ug/Kg	☼	01/04/14 10:40	01/09/14 15:35	50
Dibromomethane	<40		170	40	ug/Kg	☼	01/04/14 10:40	01/09/14 15:35	50
Dichlorodifluoromethane	<43	*	170	43	ug/Kg	☼	01/04/14 10:40	01/09/14 15:35	50
Ethylbenzene	<11		21	11	ug/Kg	☼	01/04/14 10:40	01/09/14 15:35	50
Hexachlorobutadiene	<29		170	29	ug/Kg	☼	01/04/14 10:40	01/09/14 15:35	50
Isopropyl ether	<12		170	12	ug/Kg	☼	01/04/14 10:40	01/09/14 15:35	50
Isopropylbenzene	<21		170	21	ug/Kg	☼	01/04/14 10:40	01/09/14 15:35	50
Methyl tert-butyl ether	<36		170	36	ug/Kg	☼	01/04/14 10:40	01/09/14 15:35	50
Methylene Chloride	<57		420	57	ug/Kg	☼	01/04/14 10:40	01/09/14 15:35	50
Naphthalene	<41		170	41	ug/Kg	☼	01/04/14 10:40	01/09/14 15:35	50
n-Butylbenzene	<11		83	11	ug/Kg	☼	01/04/14 10:40	01/09/14 15:35	50
N-Propylbenzene	<15		170	15	ug/Kg	☼	01/04/14 10:40	01/09/14 15:35	50
p-Isopropyltoluene	<15		170	15	ug/Kg	☼	01/04/14 10:40	01/09/14 15:35	50

Client Sample ID: B-191 (13.7-15.7)

Lab Sample ID: 500-69634-22

Date Collected: 01/04/14 10:40

Matrix: Solid

Date Received: 01/07/14 10:10

Percent Solids: 94.3

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	<13		83	13	ug/Kg	☼	01/04/14 10:40	01/09/14 15:35	50
Styrene	<8.2		83	8.2	ug/Kg	☼	01/04/14 10:40	01/09/14 15:35	50
tert-Butylbenzene	<11		83	11	ug/Kg	☼	01/04/14 10:40	01/09/14 15:35	50
Tetrachloroethene	<14		83	14	ug/Kg	☼	01/04/14 10:40	01/09/14 15:35	50
Toluene	**55**		21	9.6	ug/Kg	☼	01/04/14 10:40	01/09/14 15:35	50
trans-1,2-Dichloroethene	<21		83	21	ug/Kg	☼	01/04/14 10:40	01/09/14 15:35	50
trans-1,3-Dichloropropene	<17		83	17	ug/Kg	☼	01/04/14 10:40	01/09/14 15:35	50
Trichloroethene	<16		42	16	ug/Kg	☼	01/04/14 10:40	01/09/14 15:35	50
Trichlorofluoromethane	<35		170	35	ug/Kg	☼	01/04/14 10:40	01/09/14 15:35	50
Vinyl chloride	<8.7		21	8.7	ug/Kg	☼	01/04/14 10:40	01/09/14 15:35	50
Xylenes, Total	<5.7		42	5.7	ug/Kg	☼	01/04/14 10:40	01/09/14 15:35	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*96*		*75 - 125*	*01/04/14 10:40*	*01/09/14 15:35*	*50*
4-Bromofluorobenzene (Surr)	*109*		*75 - 120*	*01/04/14 10:40*	*01/09/14 15:35*	*50*
Dibromofluoromethane	*85*		*75 - 120*	*01/04/14 10:40*	*01/09/14 15:35*	*50*
Toluene-d8 (Surr)	*94*		*75 - 120*	*01/04/14 10:40*	*01/09/14 15:35*	*50*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<6.0		17	6.0	ug/Kg	☼	01/08/14 07:19	01/10/14 15:30	1
PCB-1221	<7.5		17	7.5	ug/Kg	☼	01/08/14 07:19	01/10/14 15:30	1
PCB-1232	<7.4		17	7.4	ug/Kg	☼	01/08/14 07:19	01/10/14 15:30	1
PCB-1242	**9.3**	**J**	17	5.6	ug/Kg	☼	01/08/14 07:19	01/10/14 15:30	1
PCB-1248	<6.7		17	6.7	ug/Kg	☼	01/08/14 07:19	01/10/14 15:30	1
PCB-1254	<3.7		17	3.7	ug/Kg	☼	01/08/14 07:19	01/10/14 15:30	1
PCB-1260	<8.4		17	8.4	ug/Kg	☼	01/08/14 07:19	01/10/14 15:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*75*		*50 - 116*	*01/08/14 07:19*	*01/10/14 15:30*	*1*
DCB Decachlorobiphenyl	*78*		*48 - 142*	*01/08/14 07:19*	*01/10/14 15:30*	*1*

Client Sample ID: B-191 (17.3-19.3)

Lab Sample ID: 500-69634-23

Date Collected: 01/04/14 10:45

Matrix: Solid

Date Received: 01/07/14 10:10

Percent Solids: 93.2

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<31		180	31	ug/Kg	☼	01/04/14 10:45	01/09/14 16:00	50
1,1,1-Trichloroethane	<18		90	18	ug/Kg	☼	01/04/14 10:45	01/09/14 16:00	50
1,1,2,2-Tetrachloroethane	<21		90	21	ug/Kg	☼	01/04/14 10:45	01/09/14 16:00	50
1,1,2-Trichloroethane	<25		90	25	ug/Kg	☼	01/04/14 10:45	01/09/14 16:00	50
1,1-Dichloroethane	<17		90	17	ug/Kg	☼	01/04/14 10:45	01/09/14 16:00	50
1,1-Dichloroethene	<28		90	28	ug/Kg	☼	01/04/14 10:45	01/09/14 16:00	50
1,1-Dichloropropene	<31		90	31	ug/Kg	☼	01/04/14 10:45	01/09/14 16:00	50
1,2,3-Trichlorobenzene	<32		180	32	ug/Kg	☼	01/04/14 10:45	01/09/14 16:00	50
1,2,3-Trichloropropane	<52		180	52	ug/Kg	☼	01/04/14 10:45	01/09/14 16:00	50
1,2,4-Trichlorobenzene	<34		180	34	ug/Kg	☼	01/04/14 10:45	01/09/14 16:00	50
1,2,4-Trimethylbenzene	<19		180	19	ug/Kg	☼	01/04/14 10:45	01/09/14 16:00	50
1,2-Dibromo-3-Chloropropane	<79		180	79	ug/Kg	☼	01/04/14 10:45	01/09/14 16:00	50

Client: ARCADIS U.S., Inc.
Project/Site: MadisonKipp

TestAmerica Job ID: 500-69634-1

Client Sample ID: B-191 (17.3-19.3)
Date Collected: 01/04/14 10:45
Date Received: 01/07/14 10:10

Lab Sample ID: 500-69634-23
Matrix: Solid
Percent Solids: 93.2

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane	<28		180	28	ug/Kg	☼	01/04/14 10:45	01/09/14 16:00	50
1,2-Dichlorobenzene	<19		180	19	ug/Kg	☼	01/04/14 10:45	01/09/14 16:00	50
1,2-Dichloroethane	<26		90	26	ug/Kg	☼	01/04/14 10:45	01/09/14 16:00	50
1,2-Dichloropropane	<18		90	18	ug/Kg	☼	01/04/14 10:45	01/09/14 16:00	50
1,3,5-Trimethylbenzene	<19		180	19	ug/Kg	☼	01/04/14 10:45	01/09/14 16:00	50
1,3-Dichlorobenzene	<23		180	23	ug/Kg	☼	01/04/14 10:45	01/09/14 16:00	50
1,3-Dichloropropane	<12		90	12	ug/Kg	☼	01/04/14 10:45	01/09/14 16:00	50
1,4-Dichlorobenzene	<16		180	16	ug/Kg	☼	01/04/14 10:45	01/09/14 16:00	50
2,2-Dichloropropane	<29		90	29	ug/Kg	☼	01/04/14 10:45	01/09/14 16:00	50
2-Chlorotoluene	<19		90	19	ug/Kg	☼	01/04/14 10:45	01/09/14 16:00	50
4-Chlorotoluene	<18		90	18	ug/Kg	☼	01/04/14 10:45	01/09/14 16:00	50
Benzene	<6.7		23	6.7	ug/Kg	☼	01/04/14 10:45	01/09/14 16:00	50
Bromobenzene	<38		180	38	ug/Kg	☼	01/04/14 10:45	01/09/14 16:00	50
Bromochloromethane	<34		180	34	ug/Kg	☼	01/04/14 10:45	01/09/14 16:00	50
Bromodichloromethane	<31		180	31	ug/Kg	☼	01/04/14 10:45	01/09/14 16:00	50
Bromoform	<40		180	40	ug/Kg	☼	01/04/14 10:45	01/09/14 16:00	50
Bromomethane	<62		180	62	ug/Kg	☼	01/04/14 10:45	01/09/14 16:00	50
Carbon tetrachloride	<23		90	23	ug/Kg	☼	01/04/14 10:45	01/09/14 16:00	50
Chlorobenzene	<13		90	13	ug/Kg	☼	01/04/14 10:45	01/09/14 16:00	50
Chloroethane	<39		180	39	ug/Kg	☼	01/04/14 10:45	01/09/14 16:00	50
Chloroform	<19		90	19	ug/Kg	☼	01/04/14 10:45	01/09/14 16:00	50
Chloromethane	<42		180	42	ug/Kg	☼	01/04/14 10:45	01/09/14 16:00	50
cis-1,2-Dichloroethene	<11		90	11	ug/Kg	☼	01/04/14 10:45	01/09/14 16:00	50
cis-1,3-Dichloropropene	<16		90	16	ug/Kg	☼	01/04/14 10:45	01/09/14 16:00	50
Dibromochloromethane	<31		180	31	ug/Kg	☼	01/04/14 10:45	01/09/14 16:00	50
Dibromomethane	<43		180	43	ug/Kg	☼	01/04/14 10:45	01/09/14 16:00	50
Dichlorodifluoromethane	<46	*	180	46	ug/Kg	☼	01/04/14 10:45	01/09/14 16:00	50
Ethylbenzene	<11		23	11	ug/Kg	☼	01/04/14 10:45	01/09/14 16:00	50
Hexachlorobutadiene	<31		180	31	ug/Kg	☼	01/04/14 10:45	01/09/14 16:00	50
Isopropyl ether	<13		180	13	ug/Kg	☼	01/04/14 10:45	01/09/14 16:00	50
Isopropylbenzene	<23		180	23	ug/Kg	☼	01/04/14 10:45	01/09/14 16:00	50
Methyl tert-butyl ether	<39		180	39	ug/Kg	☼	01/04/14 10:45	01/09/14 16:00	50
Methylene Chloride	<62		450	62	ug/Kg	☼	01/04/14 10:45	01/09/14 16:00	50
Naphthalene	<45		180	45	ug/Kg	☼	01/04/14 10:45	01/09/14 16:00	50
n-Butylbenzene	<12		90	12	ug/Kg	☼	01/04/14 10:45	01/09/14 16:00	50
N-Propylbenzene	<16		180	16	ug/Kg	☼	01/04/14 10:45	01/09/14 16:00	50
p-Isopropyltoluene	<17		180	17	ug/Kg	☼	01/04/14 10:45	01/09/14 16:00	50
sec-Butylbenzene	<14		90	14	ug/Kg	☼	01/04/14 10:45	01/09/14 16:00	50
Styrene	<8.9		90	8.9	ug/Kg	☼	01/04/14 10:45	01/09/14 16:00	50
tert-Butylbenzene	<12		90	12	ug/Kg	☼	01/04/14 10:45	01/09/14 16:00	50
Tetrachloroethene	<15		90	15	ug/Kg	☼	01/04/14 10:45	01/09/14 16:00	50
Toluene	<10		23	10	ug/Kg	☼	01/04/14 10:45	01/09/14 16:00	50
trans-1,2-Dichloroethene	<23		90	23	ug/Kg	☼	01/04/14 10:45	01/09/14 16:00	50
trans-1,3-Dichloropropene	<19		90	19	ug/Kg	☼	01/04/14 10:45	01/09/14 16:00	50
Trichloroethene	<17		45	17	ug/Kg	☼	01/04/14 10:45	01/09/14 16:00	50
Trichlorofluoromethane	<37		180	37	ug/Kg	☼	01/04/14 10:45	01/09/14 16:00	50
Vinyl chloride	<9.4		23	9.4	ug/Kg	☼	01/04/14 10:45	01/09/14 16:00	50
Xylenes, Total	<6.2		45	6.2	ug/Kg	☼	01/04/14 10:45	01/09/14 16:00	50

Client Sample ID: B-191 (17.3-19.3)

Lab Sample ID: 500-69634-23

Date Collected: 01/04/14 10:45
Matrix: Solid
Date Received: 01/07/14 10:10
Percent Solids: 93.2

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		75 - 125	01/04/14 10:45	01/09/14 16:00	50
4-Bromofluorobenzene (Surr)	112		75 - 120	01/04/14 10:45	01/09/14 16:00	50
Dibromofluoromethane	84		75 - 120	01/04/14 10:45	01/09/14 16:00	50
Toluene-d8 (Surr)	96		75 - 120	01/04/14 10:45	01/09/14 16:00	50

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<6.2		18	6.2	ug/Kg	☼	01/08/14 07:19	01/10/14 15:44	1
PCB-1221	<7.7		18	7.7	ug/Kg	☼	01/08/14 07:19	01/10/14 15:44	1
PCB-1232	<7.7		18	7.7	ug/Kg	☼	01/08/14 07:19	01/10/14 15:44	1
PCB-1242	7.5	J	18	5.8	ug/Kg	☼	01/08/14 07:19	01/10/14 15:44	1
PCB-1248	<6.9		18	6.9	ug/Kg	☼	01/08/14 07:19	01/10/14 15:44	1
PCB-1254	<3.8		18	3.8	ug/Kg	☼	01/08/14 07:19	01/10/14 15:44	1
PCB-1260	<8.6		18	8.6	ug/Kg	☼	01/08/14 07:19	01/10/14 15:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	59		50 - 116	01/08/14 07:19	01/10/14 15:44	1
DCB Decachlorobiphenyl	81		48 - 142	01/08/14 07:19	01/10/14 15:44	1

Client Sample ID: Trip Blank

Lab Sample ID: 500-69634-24

Date Collected: 01/03/14 00:00
Matrix: Solid
Date Received: 01/07/14 10:10
Percent Solids: 100.0

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<17		100	17	ug/Kg	☼	01/04/14 12:00	01/09/14 16:25	50
1,1,1-Trichloroethane	<10		50	10	ug/Kg	☼	01/04/14 12:00	01/09/14 16:25	50
1,1,2,2-Tetrachloroethane	<12		50	12	ug/Kg	☼	01/04/14 12:00	01/09/14 16:25	50
1,1,2-Trichloroethane	<14		50	14	ug/Kg	☼	01/04/14 12:00	01/09/14 16:25	50
1,1-Dichloroethane	<9.3		50	9.3	ug/Kg	☼	01/04/14 12:00	01/09/14 16:25	50
1,1-Dichloroethene	<15		50	15	ug/Kg	☼	01/04/14 12:00	01/09/14 16:25	50
1,1-Dichloropropene	<17		50	17	ug/Kg	☼	01/04/14 12:00	01/09/14 16:25	50
1,2,3-Trichlorobenzene	<18		100	18	ug/Kg	☼	01/04/14 12:00	01/09/14 16:25	50
1,2,3-Trichloropropane	<29		100	29	ug/Kg	☼	01/04/14 12:00	01/09/14 16:25	50
1,2,4-Trichlorobenzene	<19		100	19	ug/Kg	☼	01/04/14 12:00	01/09/14 16:25	50
1,2,4-Trimethylbenzene	<11		100	11	ug/Kg	☼	01/04/14 12:00	01/09/14 16:25	50
1,2-Dibromo-3-Chloropropane	<44		100	44	ug/Kg	☼	01/04/14 12:00	01/09/14 16:25	50
1,2-Dibromoethane	<16		100	16	ug/Kg	☼	01/04/14 12:00	01/09/14 16:25	50
1,2-Dichlorobenzene	<10		100	10	ug/Kg	☼	01/04/14 12:00	01/09/14 16:25	50
1,2-Dichloroethane	<14		50	14	ug/Kg	☼	01/04/14 12:00	01/09/14 16:25	50
1,2-Dichloropropane	<9.8		50	9.8	ug/Kg	☼	01/04/14 12:00	01/09/14 16:25	50
1,3,5-Trimethylbenzene	<10		100	10	ug/Kg	☼	01/04/14 12:00	01/09/14 16:25	50
1,3-Dichlorobenzene	<13		100	13	ug/Kg	☼	01/04/14 12:00	01/09/14 16:25	50
1,3-Dichloropropane	<6.7		50	6.7	ug/Kg	☼	01/04/14 12:00	01/09/14 16:25	50
1,4-Dichlorobenzene	<8.7		100	8.7	ug/Kg	☼	01/04/14 12:00	01/09/14 16:25	50
2,2-Dichloropropane	<16		50	16	ug/Kg	☼	01/04/14 12:00	01/09/14 16:25	50
2-Chlorotoluene	<10		50	10	ug/Kg	☼	01/04/14 12:00	01/09/14 16:25	50
4-Chlorotoluene	<9.9		50	9.9	ug/Kg	☼	01/04/14 12:00	01/09/14 16:25	50
Benzene	<3.7		13	3.7	ug/Kg	☼	01/04/14 12:00	01/09/14 16:25	50
Bromobenzene	<21		100	21	ug/Kg	☼	01/04/14 12:00	01/09/14 16:25	50
Bromochloromethane	<19		100	19	ug/Kg	☼	01/04/14 12:00	01/09/14 16:25	50

Client: ARCADIS U.S., Inc.
Project/Site: MadisonKipp

TestAmerica Job ID: 500-69634-1

Client Sample ID: Trip Blank
Date Collected: 01/03/14 00:00
Date Received: 01/07/14 10:10

Lab Sample ID: 500-69634-24
Matrix: Solid
Percent Solids: 100.0

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromodichloromethane	<17		100	17	ug/Kg	☼	01/04/14 12:00	01/09/14 16:25	50
Bromoform	<22		100	22	ug/Kg	☼	01/04/14 12:00	01/09/14 16:25	50
Bromomethane	<34		100	34	ug/Kg	☼	01/04/14 12:00	01/09/14 16:25	50
Carbon tetrachloride	<13		50	13	ug/Kg	☼	01/04/14 12:00	01/09/14 16:25	50
Chlorobenzene	<7.2		50	7.2	ug/Kg	☼	01/04/14 12:00	01/09/14 16:25	50
Chloroethane	<22		100	22	ug/Kg	☼	01/04/14 12:00	01/09/14 16:25	50
Chloroform	<10		50	10	ug/Kg	☼	01/04/14 12:00	01/09/14 16:25	50
Chloromethane	<23		100	23	ug/Kg	☼	01/04/14 12:00	01/09/14 16:25	50
cis-1,2-Dichloroethene	<6.2		50	6.2	ug/Kg	☼	01/04/14 12:00	01/09/14 16:25	50
cis-1,3-Dichloropropene	<8.9		50	8.9	ug/Kg	☼	01/04/14 12:00	01/09/14 16:25	50
Dibromochloromethane	<17		100	17	ug/Kg	☼	01/04/14 12:00	01/09/14 16:25	50
Dibromomethane	<24		100	24	ug/Kg	☼	01/04/14 12:00	01/09/14 16:25	50
Dichlorodifluoromethane	<26	*	100	26	ug/Kg	☼	01/04/14 12:00	01/09/14 16:25	50
Ethylbenzene	<6.3		13	6.3	ug/Kg	☼	01/04/14 12:00	01/09/14 16:25	50
Hexachlorobutadiene	<17		100	17	ug/Kg	☼	01/04/14 12:00	01/09/14 16:25	50
Isopropyl ether	<7.4		100	7.4	ug/Kg	☼	01/04/14 12:00	01/09/14 16:25	50
Isopropylbenzene	<13		100	13	ug/Kg	☼	01/04/14 12:00	01/09/14 16:25	50
Methyl tert-butyl ether	<22		100	22	ug/Kg	☼	01/04/14 12:00	01/09/14 16:25	50
Methylene Chloride	<34		250	34	ug/Kg	☼	01/04/14 12:00	01/09/14 16:25	50
Naphthalene	<25		100	25	ug/Kg	☼	01/04/14 12:00	01/09/14 16:25	50
n-Butylbenzene	<6.5		50	6.5	ug/Kg	☼	01/04/14 12:00	01/09/14 16:25	50
N-Propylbenzene	<8.8		100	8.8	ug/Kg	☼	01/04/14 12:00	01/09/14 16:25	50
p-Isopropyltoluene	<9.3		100	9.3	ug/Kg	☼	01/04/14 12:00	01/09/14 16:25	50
sec-Butylbenzene	<7.7		50	7.7	ug/Kg	☼	01/04/14 12:00	01/09/14 16:25	50
Styrene	<4.9		50	4.9	ug/Kg	☼	01/04/14 12:00	01/09/14 16:25	50
tert-Butylbenzene	<6.8		50	6.8	ug/Kg	☼	01/04/14 12:00	01/09/14 16:25	50
Tetrachloroethene	<8.4		50	8.4	ug/Kg	☼	01/04/14 12:00	01/09/14 16:25	50
Toluene	<5.8		13	5.8	ug/Kg	☼	01/04/14 12:00	01/09/14 16:25	50
trans-1,2-Dichloroethene	<13		50	13	ug/Kg	☼	01/04/14 12:00	01/09/14 16:25	50
trans-1,3-Dichloropropene	<10		50	10	ug/Kg	☼	01/04/14 12:00	01/09/14 16:25	50
Trichloroethene	<9.3		25	9.3	ug/Kg	☼	01/04/14 12:00	01/09/14 16:25	50
Trichlorofluoromethane	<21		100	21	ug/Kg	☼	01/04/14 12:00	01/09/14 16:25	50
Vinyl chloride	<5.2		13	5.2	ug/Kg	☼	01/04/14 12:00	01/09/14 16:25	50
Xylenes, Total	<3.4		25	3.4	ug/Kg	☼	01/04/14 12:00	01/09/14 16:25	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*96*		*75 - 125*	*01/04/14 12:00*	*01/09/14 16:25*	*50*
4-Bromofluorobenzene (Surr)	*110*		*75 - 120*	*01/04/14 12:00*	*01/09/14 16:25*	*50*
Dibromofluoromethane	*81*		*75 - 120*	*01/04/14 12:00*	*01/09/14 16:25*	*50*
Toluene-d8 (Surr)	*97*		*75 - 120*	*01/04/14 12:00*	*01/09/14 16:25*	*50*

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD exceeds the control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery exceeds the control limits
F2	MS/MSD RPD exceeds control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
D	Surrogate or matrix spike recoveries were not obtained because the extract was diluted for analysis; also compounds analyzed at a dilution may be flagged with a D.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

GC/MS VOA

Prep Batch: 218925

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-69634-1	B-186 (2-4)	Total/NA	Solid	5035	
500-69634-2	B-185 (1.5-3.5)	Total/NA	Solid	5035	
500-69634-3	B-184 (2-4)	Total/NA	Solid	5035	
500-69634-4	B-184 (14-16)	Total/NA	Solid	5035	
500-69634-5	B-184 (18.5-20.5)	Total/NA	Solid	5035	
500-69634-6	B-177 (2-4)	Total/NA	Solid	5035	
500-69634-7	B-183 (1.7-3.7)	Total/NA	Solid	5035	
500-69634-8	B-183 (8-10)	Total/NA	Solid	5035	
500-69634-9	B-183 (17.3-19.3)	Total/NA	Solid	5035	
500-69634-10	B-187 (1.3-3.3)	Total/NA	Solid	5035	
500-69634-11	B-187 (8-10)	Total/NA	Solid	5035	
500-69634-12	B-187 (12-14)	Total/NA	Solid	5035	
500-69634-13	B-160 (12-14)	Total/NA	Solid	5035	
500-69634-14	B-160 (17-19)	Total/NA	Solid	5035	
500-69634-15	B-179 (2-4)	Total/NA	Solid	5035	
500-69634-17	B-181 (18.1-20.1)	Total/NA	Solid	5035	
500-69634-18	B-158 (15-17)	Total/NA	Solid	5035	
LB3 500-218925/19-A	Method Blank	Total/NA	Solid	5035	
LCS 500-218925/20-A	Lab Control Sample	Total/NA	Solid	5035	

Prep Batch: 218929

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-69634-16	B-179 (9-11)	Total/NA	Solid	5030B	
500-69634-19	B-179 (21.1-23.1)	Total/NA	Solid	5035	
500-69634-20	B-179 (4-6)	Total/NA	Solid	5035	
500-69634-21	B-191 (2-4)	Total/NA	Solid	5035	
500-69634-22	B-191 (13.7-15.7)	Total/NA	Solid	5035	
500-69634-23	B-191 (17.3-19.3)	Total/NA	Solid	5035	
500-69634-24	Trip Blank	Total/NA	Solid	5035	
LB3 500-218929/7-A	Method Blank	Total/NA	Solid	5035	
LCS 500-218929/8-A	Lab Control Sample	Total/NA	Solid	5035	

Analysis Batch: 218981

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-69634-1	B-186 (2-4)	Total/NA	Solid	8260B	218925
500-69634-2	B-185 (1.5-3.5)	Total/NA	Solid	8260B	218925
500-69634-3	B-184 (2-4)	Total/NA	Solid	8260B	218925
500-69634-4	B-184 (14-16)	Total/NA	Solid	8260B	218925
500-69634-5	B-184 (18.5-20.5)	Total/NA	Solid	8260B	218925
500-69634-6	B-177 (2-4)	Total/NA	Solid	8260B	218925
LCS 500-218981/4	Lab Control Sample	Total/NA	Solid	8260B	
MB 500-218981/6	Method Blank	Total/NA	Solid	8260B	

Analysis Batch: 219067

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-69634-7	B-183 (1.7-3.7)	Total/NA	Solid	8260B	218925
500-69634-8	B-183 (8-10)	Total/NA	Solid	8260B	218925
500-69634-9	B-183 (17.3-19.3)	Total/NA	Solid	8260B	218925
500-69634-10	B-187 (1.3-3.3)	Total/NA	Solid	8260B	218925
500-69634-11	B-187 (8-10)	Total/NA	Solid	8260B	218925
500-69634-12	B-187 (12-14)	Total/NA	Solid	8260B	218925

GC/MS VOA (Continued)

Analysis Batch: 219067 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-69634-13	B-160 (12-14)	Total/NA	Solid	8260B	218925
500-69634-14	B-160 (17-19)	Total/NA	Solid	8260B	218925
500-69634-15	B-179 (2-4)	Total/NA	Solid	8260B	218925
500-69634-16	B-179 (9-11)	Total/NA	Solid	8260B	218929
500-69634-17	B-181 (18.1-20.1)	Total/NA	Solid	8260B	218925
500-69634-18	B-158 (15-17)	Total/NA	Solid	8260B	218925
500-69634-19	B-179 (21.1-23.1)	Total/NA	Solid	8260B	218929
LCS 500-219067/4	Lab Control Sample	Total/NA	Solid	8260B	
MB 500-219067/6	Method Blank	Total/NA	Solid	8260B	

Analysis Batch: 219125

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-69634-20	B-179 (4-6)	Total/NA	Solid	8260B	218929
500-69634-21	B-191 (2-4)	Total/NA	Solid	8260B	218929
500-69634-22	B-191 (13.7-15.7)	Total/NA	Solid	8260B	218929
500-69634-23	B-191 (17.3-19.3)	Total/NA	Solid	8260B	218929
500-69634-24	Trip Blank	Total/NA	Solid	8260B	218929
LB3 500-218925/19-A	Method Blank	Total/NA	Solid	8260B	218925
LB3 500-218929/7-A	Method Blank	Total/NA	Solid	8260B	218929
LCS 500-218925/20-A	Lab Control Sample	Total/NA	Solid	8260B	218925
LCS 500-218929/8-A	Lab Control Sample	Total/NA	Solid	8260B	218929
LCS 500-219125/4	Lab Control Sample	Total/NA	Solid	8260B	
MB 500-219125/6	Method Blank	Total/NA	Solid	8260B	

GC Semi VOA

Prep Batch: 218973

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-69634-1	B-186 (2-4)	Total/NA	Solid	3541	
500-69634-1 MS	B-186 (2-4)	Total/NA	Solid	3541	
500-69634-1 MSD	B-186 (2-4)	Total/NA	Solid	3541	
500-69634-2	B-185 (1.5-3.5)	Total/NA	Solid	3541	
500-69634-3	B-184 (2-4)	Total/NA	Solid	3541	
500-69634-4	B-184 (14-16)	Total/NA	Solid	3541	
500-69634-5	B-184 (18.5-20.5)	Total/NA	Solid	3541	
500-69634-6	B-177 (2-4)	Total/NA	Solid	3541	
500-69634-7	B-183 (1.7-3.7)	Total/NA	Solid	3541	
500-69634-8	B-183 (8-10)	Total/NA	Solid	3541	
500-69634-9	B-183 (17.3-19.3)	Total/NA	Solid	3541	
500-69634-10	B-187 (1.3-3.3)	Total/NA	Solid	3541	
500-69634-11	B-187 (8-10)	Total/NA	Solid	3541	
500-69634-12	B-187 (12-14)	Total/NA	Solid	3541	
500-69634-13	B-160 (12-14)	Total/NA	Solid	3541	
500-69634-14	B-160 (17-19)	Total/NA	Solid	3541	
500-69634-15	B-179 (2-4)	Total/NA	Solid	3541	
500-69634-16	B-179 (9-11)	Total/NA	Solid	3541	
500-69634-17	B-181 (18.1-20.1)	Total/NA	Solid	3541	
500-69634-18	B-158 (15-17)	Total/NA	Solid	3541	
500-69634-19	B-179 (21.1-23.1)	Total/NA	Solid	3541	
500-69634-20	B-179 (4-6)	Total/NA	Solid	3541	

GC Semi VOA (Continued)

Prep Batch: 218973 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 500-218973/2-A	Lab Control Sample	Total/NA	Solid	3541	
MB 500-218973/1-A	Method Blank	Total/NA	Solid	3541	

Prep Batch: 218974

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-69634-21	B-191 (2-4)	Total/NA	Solid	3541	
500-69634-21 MS	B-191 (2-4)	Total/NA	Solid	3541	
500-69634-21 MSD	B-191 (2-4)	Total/NA	Solid	3541	
500-69634-22	B-191 (13.7-15.7)	Total/NA	Solid	3541	
500-69634-23	B-191 (17.3-19.3)	Total/NA	Solid	3541	
LCS 500-218974/2-A	Lab Control Sample	Total/NA	Solid	3541	
MB 500-218974/1-A	Method Blank	Total/NA	Solid	3541	

Analysis Batch: 219283

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-69634-1	B-186 (2-4)	Total/NA	Solid	8082	218973
500-69634-1 MS	B-186 (2-4)	Total/NA	Solid	8082	218973
500-69634-1 MSD	B-186 (2-4)	Total/NA	Solid	8082	218973
500-69634-2	B-185 (1.5-3.5)	Total/NA	Solid	8082	218973
500-69634-3	B-184 (2-4)	Total/NA	Solid	8082	218973
500-69634-4	B-184 (14-16)	Total/NA	Solid	8082	218973
500-69634-5	B-184 (18.5-20.5)	Total/NA	Solid	8082	218973
500-69634-6	B-177 (2-4)	Total/NA	Solid	8082	218973
500-69634-7	B-183 (1.7-3.7)	Total/NA	Solid	8082	218973
500-69634-8	B-183 (8-10)	Total/NA	Solid	8082	218973
500-69634-9	B-183 (17.3-19.3)	Total/NA	Solid	8082	218973
500-69634-10	B-187 (1.3-3.3)	Total/NA	Solid	8082	218973
500-69634-11	B-187 (8-10)	Total/NA	Solid	8082	218973
500-69634-12	B-187 (12-14)	Total/NA	Solid	8082	218973
500-69634-13	B-160 (12-14)	Total/NA	Solid	8082	218973
500-69634-14	B-160 (17-19)	Total/NA	Solid	8082	218973
500-69634-15	B-179 (2-4)	Total/NA	Solid	8082	218973
500-69634-16	B-179 (9-11)	Total/NA	Solid	8082	218973
500-69634-17	B-181 (18.1-20.1)	Total/NA	Solid	8082	218973
500-69634-18	B-158 (15-17)	Total/NA	Solid	8082	218973
500-69634-19	B-179 (21.1-23.1)	Total/NA	Solid	8082	218973
500-69634-20	B-179 (4-6)	Total/NA	Solid	8082	218973
500-69634-21	B-191 (2-4)	Total/NA	Solid	8082	218974
500-69634-21 MS	B-191 (2-4)	Total/NA	Solid	8082	218974
500-69634-21 MSD	B-191 (2-4)	Total/NA	Solid	8082	218974
500-69634-22	B-191 (13.7-15.7)	Total/NA	Solid	8082	218974
500-69634-23	B-191 (17.3-19.3)	Total/NA	Solid	8082	218974
LCS 500-218973/2-A	Lab Control Sample	Total/NA	Solid	8082	218973
LCS 500-218974/2-A	Lab Control Sample	Total/NA	Solid	8082	218974
MB 500-218973/1-A	Method Blank	Total/NA	Solid	8082	218973
MB 500-218974/1-A	Method Blank	Total/NA	Solid	8082	218974

Client: ARCADIS U.S., Inc.
Project/Site: MadisonKipp

TestAmerica Job ID: 500-69634-1

General Chemistry

Analysis Batch: 219085

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-69634-1	B-186 (2-4)	Total/NA	Solid	Moisture	
500-69634-2	B-185 (1.5-3.5)	Total/NA	Solid	Moisture	
500-69634-3	B-184 (2-4)	Total/NA	Solid	Moisture	
500-69634-4	B-184 (14-16)	Total/NA	Solid	Moisture	
500-69634-4 DU	B-184 (14-16)	Total/NA	Solid	Moisture	
500-69634-5	B-184 (18.5-20.5)	Total/NA	Solid	Moisture	
500-69634-6	B-177 (2-4)	Total/NA	Solid	Moisture	
500-69634-7	B-183 (1.7-3.7)	Total/NA	Solid	Moisture	
500-69634-8	B-183 (8-10)	Total/NA	Solid	Moisture	
500-69634-9	B-183 (17.3-19.3)	Total/NA	Solid	Moisture	
500-69634-10	B-187 (1.3-3.3)	Total/NA	Solid	Moisture	
500-69634-11	B-187 (8-10)	Total/NA	Solid	Moisture	
500-69634-12	B-187 (12-14)	Total/NA	Solid	Moisture	
500-69634-13	B-160 (12-14)	Total/NA	Solid	Moisture	
500-69634-14	B-160 (17-19)	Total/NA	Solid	Moisture	
500-69634-15	B-179 (2-4)	Total/NA	Solid	Moisture	
500-69634-16	B-179 (9-11)	Total/NA	Solid	Moisture	
500-69634-17	B-181 (18.1-20.1)	Total/NA	Solid	Moisture	
500-69634-18	B-158 (15-17)	Total/NA	Solid	Moisture	
500-69634-19	B-179 (21.1-23.1)	Total/NA	Solid	Moisture	
500-69634-20	B-179 (4-6)	Total/NA	Solid	Moisture	
500-69634-21	B-191 (2-4)	Total/NA	Solid	Moisture	
500-69634-22	B-191 (13.7-15.7)	Total/NA	Solid	Moisture	
500-69634-23	B-191 (17.3-19.3)	Total/NA	Solid	Moisture	
500-69634-24	Trip Blank	Total/NA	Solid	Moisture	

Surrogate Summary

Client: ARCADIS U.S., Inc.
Project/Site: MadisonKipp

TestAmerica Job ID: 500-69634-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		12DCE	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(75-125)	(75-120)	(75-120)	(75-120)
500-69634-1	B-186 (2-4)	103	104	86	95
500-69634-2	B-185 (1.5-3.5)	101	104	86	96
500-69634-3	B-184 (2-4)	100	104	84	96
500-69634-4	B-184 (14-16)	99	106	84	96
500-69634-5	B-184 (18.5-20.5)	100	106	83	97
500-69634-6	B-177 (2-4)	99	108	85	95
500-69634-7	B-183 (1.7-3.7)	94	107	82	96
500-69634-8	B-183 (8-10)	94	110	81	97
500-69634-9	B-183 (17.3-19.3)	96	107	84	94
500-69634-10	B-187 (1.3-3.3)	94	108	83	94
500-69634-11	B-187 (8-10)	93	108	84	95
500-69634-12	B-187 (12-14)	93	108	82	95
500-69634-13	B-160 (12-14)	93	107	83	94
500-69634-14	B-160 (17-19)	94	109	82	96
500-69634-15	B-179 (2-4)	95	109	79	98
500-69634-16	B-179 (9-11)	93	113	82	98
500-69634-17	B-181 (18.1-20.1)	96	114	82	97
500-69634-18	B-158 (15-17)	99	109	83	98
500-69634-19	B-179 (21.1-23.1)	97	111	82	98
500-69634-20	B-179 (4-6)	100	109	85	95
500-69634-21	B-191 (2-4)	98	113	82	97
500-69634-22	B-191 (13.7-15.7)	96	109	85	94
500-69634-23	B-191 (17.3-19.3)	98	112	84	96
500-69634-24	Trip Blank	96	110	81	97
LB3 500-218925/19-A	Method Blank	96	114	84	97
LB3 500-218929/7-A	Method Blank	94	107	79	96
LCS 500-218925/20-A	Lab Control Sample	96	105	92	99
LCS 500-218929/8-A	Lab Control Sample	95	100	92	100
LCS 500-218981/4	Lab Control Sample	87	100	88	103
LCS 500-219067/4	Lab Control Sample	94	102	93	97
LCS 500-219125/4	Lab Control Sample	89	99	89	98
MB 500-218981/6	Method Blank	91	109	84	97
MB 500-219067/6	Method Blank	96	109	84	95
MB 500-219125/6	Method Blank	94	104	84	92

Surrogate Legend

12DCE = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane
TOL = Toluene-d8 (Surr)

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		TCX1	DCB1
Lab Sample ID	Client Sample ID	(50-116)	(48-142)
500-69634-1	B-186 (2-4)	74	95
500-69634-1 MS	B-186 (2-4)	80	95

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)											
Lab Sample ID	Client Sample ID	TCX1 (50-116)	DCB1 (48-142)										
500-69634-1 MSD	B-186 (2-4)	73	98										
500-69634-2	B-185 (1.5-3.5)	77	97										
500-69634-3	B-184 (2-4)	72	93										
500-69634-4	B-184 (14-16)	60	86										
500-69634-5	B-184 (18.5-20.5)	64	90										
500-69634-6	B-177 (2-4)	61	87										
500-69634-7	B-183 (1.7-3.7)	65	94										
500-69634-8	B-183 (8-10)	74	88										
500-69634-9	B-183 (17.3-19.3)	59	91										
500-69634-10	B-187 (1.3-3.3)	60	84										
500-69634-11	B-187 (8-10)	54	86										
500-69634-12	B-187 (12-14)	58	86										
500-69634-13	B-160 (12-14)	93	106										
500-69634-14	B-160 (17-19)	69	86										
500-69634-15	B-179 (2-4)	0 D	0 D										
500-69634-16	B-179 (9-11)	0 D	0 D										
500-69634-17	B-181 (18.1-20.1)	0 D	0 D										
500-69634-18	B-158 (15-17)	0 D	0 D										
500-69634-19	B-179 (21.1-23.1)	52	71										
500-69634-20	B-179 (4-6)	0 D	0 D										
500-69634-21	B-191 (2-4)	0 D	0 D										
500-69634-21 MS	B-191 (2-4)	0 D	0 D										
500-69634-21 MSD	B-191 (2-4)	0 D	0 D										
500-69634-22	B-191 (13.7-15.7)	75	78										
500-69634-23	B-191 (17.3-19.3)	59	81										
LCS 500-218973/2-A	Lab Control Sample	81	88										
LCS 500-218974/2-A	Lab Control Sample	77	78										
MB 500-218973/1-A	Method Blank	80	94										
MB 500-218974/1-A	Method Blank	80	95										

Surrogate Legend

TCX = Tetrachloro-m-xylene

DCB = DCB Decachlorobiphenyl

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: LB3 500-218925/19-A
Matrix: Solid
Analysis Batch: 219125

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 218925

Analyte	LB3 Result	LB3 Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<17		100	17	ug/Kg		01/07/14 15:25	01/09/14 16:50	50
1,1,1-Trichloroethane	<10		50	10	ug/Kg		01/07/14 15:25	01/09/14 16:50	50
1,1,2,2-Tetrachloroethane	<12		50	12	ug/Kg		01/07/14 15:25	01/09/14 16:50	50
1,1,2-Trichloroethane	<14		50	14	ug/Kg		01/07/14 15:25	01/09/14 16:50	50
1,1-Dichloroethane	<9.3		50	9.3	ug/Kg		01/07/14 15:25	01/09/14 16:50	50
1,1-Dichloroethene	<15		50	15	ug/Kg		01/07/14 15:25	01/09/14 16:50	50
1,1-Dichloropropene	<17		50	17	ug/Kg		01/07/14 15:25	01/09/14 16:50	50
1,2,3-Trichlorobenzene	<18		100	18	ug/Kg		01/07/14 15:25	01/09/14 16:50	50
1,2,3-Trichloropropane	<29		100	29	ug/Kg		01/07/14 15:25	01/09/14 16:50	50
1,2,4-Trichlorobenzene	<19		100	19	ug/Kg		01/07/14 15:25	01/09/14 16:50	50
1,2,4-Trimethylbenzene	<11		100	11	ug/Kg		01/07/14 15:25	01/09/14 16:50	50
1,2-Dibromo-3-Chloropropane	<44		100	44	ug/Kg		01/07/14 15:25	01/09/14 16:50	50
1,2-Dibromoethane	<16		100	16	ug/Kg		01/07/14 15:25	01/09/14 16:50	50
1,2-Dichlorobenzene	<10		100	10	ug/Kg		01/07/14 15:25	01/09/14 16:50	50
1,2-Dichloroethane	<14		50	14	ug/Kg		01/07/14 15:25	01/09/14 16:50	50
1,2-Dichloropropane	<9.8		50	9.8	ug/Kg		01/07/14 15:25	01/09/14 16:50	50
1,3,5-Trimethylbenzene	<10		100	10	ug/Kg		01/07/14 15:25	01/09/14 16:50	50
1,3-Dichlorobenzene	<13		100	13	ug/Kg		01/07/14 15:25	01/09/14 16:50	50
1,3-Dichloropropane	<6.7		50	6.7	ug/Kg		01/07/14 15:25	01/09/14 16:50	50
1,4-Dichlorobenzene	<8.7		100	8.7	ug/Kg		01/07/14 15:25	01/09/14 16:50	50
2,2-Dichloropropane	<16		50	16	ug/Kg		01/07/14 15:25	01/09/14 16:50	50
2-Chlorotoluene	<10		50	10	ug/Kg		01/07/14 15:25	01/09/14 16:50	50
4-Chlorotoluene	<9.9		50	9.9	ug/Kg		01/07/14 15:25	01/09/14 16:50	50
Benzene	<3.7		13	3.7	ug/Kg		01/07/14 15:25	01/09/14 16:50	50
Bromobenzene	<21		100	21	ug/Kg		01/07/14 15:25	01/09/14 16:50	50
Bromochloromethane	<19		100	19	ug/Kg		01/07/14 15:25	01/09/14 16:50	50
Bromodichloromethane	<17		100	17	ug/Kg		01/07/14 15:25	01/09/14 16:50	50
Bromoform	<22		100	22	ug/Kg		01/07/14 15:25	01/09/14 16:50	50
Bromomethane	<34		100	34	ug/Kg		01/07/14 15:25	01/09/14 16:50	50
Carbon tetrachloride	<13		50	13	ug/Kg		01/07/14 15:25	01/09/14 16:50	50
Chlorobenzene	<7.2		50	7.2	ug/Kg		01/07/14 15:25	01/09/14 16:50	50
Chloroethane	<22		100	22	ug/Kg		01/07/14 15:25	01/09/14 16:50	50
Chloroform	<10		50	10	ug/Kg		01/07/14 15:25	01/09/14 16:50	50
Chloromethane	<23		100	23	ug/Kg		01/07/14 15:25	01/09/14 16:50	50
cis-1,2-Dichloroethene	<6.2		50	6.2	ug/Kg		01/07/14 15:25	01/09/14 16:50	50
cis-1,3-Dichloropropene	<8.9		50	8.9	ug/Kg		01/07/14 15:25	01/09/14 16:50	50
Dibromochloromethane	<17		100	17	ug/Kg		01/07/14 15:25	01/09/14 16:50	50
Dibromomethane	<24		100	24	ug/Kg		01/07/14 15:25	01/09/14 16:50	50
Dichlorodifluoromethane	<26		100	26	ug/Kg		01/07/14 15:25	01/09/14 16:50	50
Ethylbenzene	<6.3		13	6.3	ug/Kg		01/07/14 15:25	01/09/14 16:50	50
Hexachlorobutadiene	<17		100	17	ug/Kg		01/07/14 15:25	01/09/14 16:50	50
Isopropyl ether	<7.4		100	7.4	ug/Kg		01/07/14 15:25	01/09/14 16:50	50
Isopropylbenzene	<13		100	13	ug/Kg		01/07/14 15:25	01/09/14 16:50	50
Methyl tert-butyl ether	<22		100	22	ug/Kg		01/07/14 15:25	01/09/14 16:50	50
Methylene Chloride	<34		250	34	ug/Kg		01/07/14 15:25	01/09/14 16:50	50
Naphthalene	<25		100	25	ug/Kg		01/07/14 15:25	01/09/14 16:50	50
n-Butylbenzene	<6.5		50	6.5	ug/Kg		01/07/14 15:25	01/09/14 16:50	50
N-Propylbenzene	<8.8		100	8.8	ug/Kg		01/07/14 15:25	01/09/14 16:50	50

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LB3 500-218925/19-A
Matrix: Solid
Analysis Batch: 219125

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 218925

Analyte	LB3 Result	LB3 Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
p-Isopropyltoluene	<9.3		100	9.3	ug/Kg		01/07/14 15:25	01/09/14 16:50	50
sec-Butylbenzene	<7.7		50	7.7	ug/Kg		01/07/14 15:25	01/09/14 16:50	50
Styrene	<4.9		50	4.9	ug/Kg		01/07/14 15:25	01/09/14 16:50	50
tert-Butylbenzene	<6.8		50	6.8	ug/Kg		01/07/14 15:25	01/09/14 16:50	50
Tetrachloroethene	<8.4		50	8.4	ug/Kg		01/07/14 15:25	01/09/14 16:50	50
Toluene	<5.8		13	5.8	ug/Kg		01/07/14 15:25	01/09/14 16:50	50
trans-1,2-Dichloroethene	<13		50	13	ug/Kg		01/07/14 15:25	01/09/14 16:50	50
trans-1,3-Dichloropropene	<10		50	10	ug/Kg		01/07/14 15:25	01/09/14 16:50	50
Trichloroethene	<9.3		25	9.3	ug/Kg		01/07/14 15:25	01/09/14 16:50	50
Trichlorofluoromethane	<21		100	21	ug/Kg		01/07/14 15:25	01/09/14 16:50	50
Vinyl chloride	<5.2		13	5.2	ug/Kg		01/07/14 15:25	01/09/14 16:50	50
Xylenes, Total	<3.4		25	3.4	ug/Kg		01/07/14 15:25	01/09/14 16:50	50

Surrogate	*LB3 %Recovery*	*LB3 Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*96*		*75 - 125*	*01/07/14 15:25*	*01/09/14 16:50*	*50*
4-Bromofluorobenzene (Surr)	*114*		*75 - 120*	*01/07/14 15:25*	*01/09/14 16:50*	*50*
Dibromofluoromethane	*84*		*75 - 120*	*01/07/14 15:25*	*01/09/14 16:50*	*50*
Toluene-d8 (Surr)	*97*		*75 - 120*	*01/07/14 15:25*	*01/09/14 16:50*	*50*

Lab Sample ID: LCS 500-218925/20-A
Matrix: Solid
Analysis Batch: 219125

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 218925

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	2500	2580		ug/Kg		103	75 - 120
1,1,1-Trichloroethane	2500	2560		ug/Kg		102	70 - 123
1,1,2,2-Tetrachloroethane	2500	2560		ug/Kg		103	70 - 128
1,1,2-Trichloroethane	2500	2510		ug/Kg		101	69 - 120
1,1-Dichloroethane	2500	2660		ug/Kg		106	68 - 121
1,1-Dichloroethene	2500	2260		ug/Kg		90	58 - 122
1,1-Dichloropropene	2500	2590		ug/Kg		104	70 - 120
1,2,3-Trichlorobenzene	2500	2840		ug/Kg		114	56 - 137
1,2,3-Trichloropropane	2500	2530		ug/Kg		101	70 - 120
1,2,4-Trichlorobenzene	2500	2680		ug/Kg		107	65 - 121
1,2,4-Trimethylbenzene	2500	2690		ug/Kg		107	75 - 121
1,2-Dibromo-3-Chloropropane	2500	2290		ug/Kg		92	60 - 121
1,2-Dibromoethane	2500	2440		ug/Kg		97	70 - 120
1,2-Dichlorobenzene	2500	2600		ug/Kg		104	75 - 120
1,2-Dichloroethane	2500	2540		ug/Kg		102	69 - 120
1,2-Dichloropropane	2500	2800		ug/Kg		112	70 - 120
1,3,5-Trimethylbenzene	2500	2750		ug/Kg		110	75 - 123
1,3-Dichlorobenzene	2500	2560		ug/Kg		102	70 - 120
1,3-Dichloropropane	2500	2590		ug/Kg		103	70 - 120
1,4-Dichlorobenzene	2500	2460		ug/Kg		98	75 - 120
2,2-Dichloropropane	2500	2420		ug/Kg		97	67 - 125
2-Chlorotoluene	2500	2710		ug/Kg		108	70 - 120
4-Chlorotoluene	2500	2620		ug/Kg		105	70 - 120
Benzene	2500	2610		ug/Kg		104	70 - 120

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-218925/20-A
Matrix: Solid
Analysis Batch: 219125

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 218925

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Bromobenzene	2500	2680		ug/Kg		107	70 - 120
Bromochloromethane	2500	2440		ug/Kg		98	67 - 122
Bromodichloromethane	2500	2590		ug/Kg		104	70 - 120
Bromoform	2500	2260		ug/Kg		90	70 - 125
Bromomethane	2500	1660		ug/Kg		66	50 - 150
Carbon tetrachloride	2500	2410		ug/Kg		96	70 - 125
Chlorobenzene	2500	2570		ug/Kg		103	70 - 120
Chloroethane	2500	1950		ug/Kg		78	50 - 150
Chloroform	2500	2580		ug/Kg		103	70 - 120
Chloromethane	2500	1970		ug/Kg		79	50 - 134
cis-1,2-Dichloroethene	2500	2560		ug/Kg		102	70 - 120
cis-1,3-Dichloropropene	2500	2610		ug/Kg		104	70 - 120
Dibromochloromethane	2500	2110		ug/Kg		85	70 - 120
Dibromomethane	2500	2420		ug/Kg		97	70 - 120
Dichlorodifluoromethane	2500	941	*	ug/Kg		38	40 - 140
Ethylbenzene	2500	2610		ug/Kg		104	75 - 120
Hexachlorobutadiene	2500	2660		ug/Kg		107	65 - 135
Isopropylbenzene	2500	2730		ug/Kg		109	70 - 120
Methyl tert-butyl ether	2500	2350		ug/Kg		94	58 - 122
Methylene Chloride	2500	2250		ug/Kg		90	65 - 125
Naphthalene	2500	2990		ug/Kg		120	55 - 132
n-Butylbenzene	2500	2580		ug/Kg		103	75 - 120
N-Propylbenzene	2500	2720		ug/Kg		109	70 - 120
p-Isopropyltoluene	2500	2650		ug/Kg		106	70 - 120
sec-Butylbenzene	2500	2690		ug/Kg		108	70 - 120
Styrene	2500	2600		ug/Kg		104	75 - 120
tert-Butylbenzene	2500	2740		ug/Kg		110	70 - 120
Tetrachloroethene	2500	2520		ug/Kg		101	70 - 123
Toluene	2500	2690		ug/Kg		108	70 - 120
trans-1,2-Dichloroethene	2500	2460		ug/Kg		98	70 - 124
trans-1,3-Dichloropropene	2500	2450		ug/Kg		98	70 - 120
Trichloroethene	2500	2570		ug/Kg		103	70 - 120
Trichlorofluoromethane	2500	2080		ug/Kg		83	63 - 134
Vinyl chloride	2500	1870		ug/Kg		75	62 - 138
Xylenes, Total	5000	5190		ug/Kg		104	70 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*96*		*75 - 125*
4-Bromofluorobenzene (Surr)	*105*		*75 - 120*
Dibromofluoromethane	*92*		*75 - 120*
Toluene-d8 (Surr)	*99*		*75 - 120*

Lab Sample ID: LB3 500-218929/7-A
Matrix: Solid
Analysis Batch: 219125

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 218929

Analyte	LB3 Result	LB3 Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<17		100	17	ug/Kg		01/07/14 15:25	01/09/14 17:15	50

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LB3 500-218929/7-A
Matrix: Solid
Analysis Batch: 219125

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 218929

Analyte	LB3 Result	LB3 Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<10		50	10	ug/Kg		01/07/14 15:25	01/09/14 17:15	50
1,1,2,2-Tetrachloroethane	<12		50	12	ug/Kg		01/07/14 15:25	01/09/14 17:15	50
1,1,2-Trichloroethane	<14		50	14	ug/Kg		01/07/14 15:25	01/09/14 17:15	50
1,1-Dichloroethane	<9.3		50	9.3	ug/Kg		01/07/14 15:25	01/09/14 17:15	50
1,1-Dichloroethene	<15		50	15	ug/Kg		01/07/14 15:25	01/09/14 17:15	50
1,1-Dichloropropene	<17		50	17	ug/Kg		01/07/14 15:25	01/09/14 17:15	50
1,2,3-Trichlorobenzene	<18		100	18	ug/Kg		01/07/14 15:25	01/09/14 17:15	50
1,2,3-Trichloropropane	<29		100	29	ug/Kg		01/07/14 15:25	01/09/14 17:15	50
1,2,4-Trichlorobenzene	<19		100	19	ug/Kg		01/07/14 15:25	01/09/14 17:15	50
1,2,4-Trimethylbenzene	<11		100	11	ug/Kg		01/07/14 15:25	01/09/14 17:15	50
1,2-Dibromo-3-Chloropropane	<44		100	44	ug/Kg		01/07/14 15:25	01/09/14 17:15	50
1,2-Dibromoethane	<16		100	16	ug/Kg		01/07/14 15:25	01/09/14 17:15	50
1,2-Dichlorobenzene	<10		100	10	ug/Kg		01/07/14 15:25	01/09/14 17:15	50
1,2-Dichloroethane	<14		50	14	ug/Kg		01/07/14 15:25	01/09/14 17:15	50
1,2-Dichloropropane	<9.8		50	9.8	ug/Kg		01/07/14 15:25	01/09/14 17:15	50
1,3,5-Trimethylbenzene	<10		100	10	ug/Kg		01/07/14 15:25	01/09/14 17:15	50
1,3-Dichlorobenzene	<13		100	13	ug/Kg		01/07/14 15:25	01/09/14 17:15	50
1,3-Dichloropropane	<6.7		50	6.7	ug/Kg		01/07/14 15:25	01/09/14 17:15	50
1,4-Dichlorobenzene	<8.7		100	8.7	ug/Kg		01/07/14 15:25	01/09/14 17:15	50
2,2-Dichloropropane	<16		50	16	ug/Kg		01/07/14 15:25	01/09/14 17:15	50
2-Chlorotoluene	<10		50	10	ug/Kg		01/07/14 15:25	01/09/14 17:15	50
4-Chlorotoluene	<9.9		50	9.9	ug/Kg		01/07/14 15:25	01/09/14 17:15	50
Benzene	<3.7		13	3.7	ug/Kg		01/07/14 15:25	01/09/14 17:15	50
Bromobenzene	<21		100	21	ug/Kg		01/07/14 15:25	01/09/14 17:15	50
Bromochloromethane	<19		100	19	ug/Kg		01/07/14 15:25	01/09/14 17:15	50
Bromodichloromethane	<17		100	17	ug/Kg		01/07/14 15:25	01/09/14 17:15	50
Bromoform	<22		100	22	ug/Kg		01/07/14 15:25	01/09/14 17:15	50
Bromomethane	<34		100	34	ug/Kg		01/07/14 15:25	01/09/14 17:15	50
Carbon tetrachloride	<13		50	13	ug/Kg		01/07/14 15:25	01/09/14 17:15	50
Chlorobenzene	<7.2		50	7.2	ug/Kg		01/07/14 15:25	01/09/14 17:15	50
Chloroethane	<22		100	22	ug/Kg		01/07/14 15:25	01/09/14 17:15	50
Chloroform	<10		50	10	ug/Kg		01/07/14 15:25	01/09/14 17:15	50
Chloromethane	<23		100	23	ug/Kg		01/07/14 15:25	01/09/14 17:15	50
cis-1,2-Dichloroethene	<6.2		50	6.2	ug/Kg		01/07/14 15:25	01/09/14 17:15	50
cis-1,3-Dichloropropene	<8.9		50	8.9	ug/Kg		01/07/14 15:25	01/09/14 17:15	50
Dibromochloromethane	<17		100	17	ug/Kg		01/07/14 15:25	01/09/14 17:15	50
Dibromomethane	<24		100	24	ug/Kg		01/07/14 15:25	01/09/14 17:15	50
Dichlorodifluoromethane	<26		100	26	ug/Kg		01/07/14 15:25	01/09/14 17:15	50
Ethylbenzene	<6.3		13	6.3	ug/Kg		01/07/14 15:25	01/09/14 17:15	50
Hexachlorobutadiene	<17		100	17	ug/Kg		01/07/14 15:25	01/09/14 17:15	50
Isopropyl ether	<7.4		100	7.4	ug/Kg		01/07/14 15:25	01/09/14 17:15	50
Isopropylbenzene	<13		100	13	ug/Kg		01/07/14 15:25	01/09/14 17:15	50
Methyl tert-butyl ether	<22		100	22	ug/Kg		01/07/14 15:25	01/09/14 17:15	50
Methylene Chloride	<34		250	34	ug/Kg		01/07/14 15:25	01/09/14 17:15	50
Naphthalene	<25		100	25	ug/Kg		01/07/14 15:25	01/09/14 17:15	50
n-Butylbenzene	<6.5		50	6.5	ug/Kg		01/07/14 15:25	01/09/14 17:15	50
N-Propylbenzene	<8.8		100	8.8	ug/Kg		01/07/14 15:25	01/09/14 17:15	50
p-Isopropyltoluene	<9.3		100	9.3	ug/Kg		01/07/14 15:25	01/09/14 17:15	50

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LB3 500-218929/7-A
Matrix: Solid
Analysis Batch: 219125

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 218929

Analyte	LB3 Result	LB3 Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	<7.7		50	7.7	ug/Kg		01/07/14 15:25	01/09/14 17:15	50
Styrene	<4.9		50	4.9	ug/Kg		01/07/14 15:25	01/09/14 17:15	50
tert-Butylbenzene	<6.8		50	6.8	ug/Kg		01/07/14 15:25	01/09/14 17:15	50
Tetrachloroethene	<8.4		50	8.4	ug/Kg		01/07/14 15:25	01/09/14 17:15	50
Toluene	<5.8		13	5.8	ug/Kg		01/07/14 15:25	01/09/14 17:15	50
trans-1,2-Dichloroethene	<13		50	13	ug/Kg		01/07/14 15:25	01/09/14 17:15	50
trans-1,3-Dichloropropene	<10		50	10	ug/Kg		01/07/14 15:25	01/09/14 17:15	50
Trichloroethene	<9.3		25	9.3	ug/Kg		01/07/14 15:25	01/09/14 17:15	50
Trichlorofluoromethane	<21		100	21	ug/Kg		01/07/14 15:25	01/09/14 17:15	50
Vinyl chloride	<5.2		13	5.2	ug/Kg		01/07/14 15:25	01/09/14 17:15	50
Xylenes, Total	<3.4		25	3.4	ug/Kg		01/07/14 15:25	01/09/14 17:15	50

Surrogate	*LB3 %Recovery*	*LB3 Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*94*		*75 - 125*	*01/07/14 15:25*	*01/09/14 17:15*	*50*
4-Bromofluorobenzene (Surr)	*107*		*75 - 120*	*01/07/14 15:25*	*01/09/14 17:15*	*50*
Dibromofluoromethane	*79*		*75 - 120*	*01/07/14 15:25*	*01/09/14 17:15*	*50*
Toluene-d8 (Surr)	*96*		*75 - 120*	*01/07/14 15:25*	*01/09/14 17:15*	*50*

Lab Sample ID: LCS 500-218929/8-A
Matrix: Solid
Analysis Batch: 219125

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 218929

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	2500	2510		ug/Kg		101	75 - 120
1,1,1-Trichloroethane	2500	2470		ug/Kg		99	70 - 123
1,1,2,2-Tetrachloroethane	2500	2370		ug/Kg		95	70 - 128
1,1,2-Trichloroethane	2500	2300		ug/Kg		92	69 - 120
1,1-Dichloroethane	2500	2530		ug/Kg		101	68 - 121
1,1-Dichloroethene	2500	2240		ug/Kg		89	58 - 122
1,1-Dichloropropene	2500	2450		ug/Kg		98	70 - 120
1,2,3-Trichlorobenzene	2500	2740		ug/Kg		110	56 - 137
1,2,3-Trichloropropane	2500	2340		ug/Kg		94	70 - 120
1,2,4-Trichlorobenzene	2500	2730		ug/Kg		109	65 - 121
1,2,4-Trimethylbenzene	2500	2540		ug/Kg		101	75 - 121
1,2-Dibromo-3-Chloropropane	2500	2170		ug/Kg		87	60 - 121
1,2-Dibromoethane	2500	2320		ug/Kg		93	70 - 120
1,2-Dichlorobenzene	2500	2420		ug/Kg		97	75 - 120
1,2-Dichloroethane	2500	2370		ug/Kg		95	69 - 120
1,2-Dichloropropane	2500	2530		ug/Kg		101	70 - 120
1,3,5-Trimethylbenzene	2500	2580		ug/Kg		103	75 - 123
1,3-Dichlorobenzene	2500	2410		ug/Kg		96	70 - 120
1,3-Dichloropropane	2500	2390		ug/Kg		96	70 - 120
1,4-Dichlorobenzene	2500	2310		ug/Kg		93	75 - 120
2,2-Dichloropropane	2500	2470		ug/Kg		99	67 - 125
2-Chlorotoluene	2500	2500		ug/Kg		100	70 - 120
4-Chlorotoluene	2500	2420		ug/Kg		97	70 - 120
Benzene	2500	2450		ug/Kg		98	70 - 120
Bromobenzene	2500	2380		ug/Kg		95	70 - 120

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-218929/8-A
Matrix: Solid
Analysis Batch: 219125

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 218929

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Bromochloromethane	2500	2310		ug/Kg		93	67 - 122
Bromodichloromethane	2500	2410		ug/Kg		96	70 - 120
Bromoform	2500	2090		ug/Kg		84	70 - 125
Bromomethane	2500	1630		ug/Kg		65	50 - 150
Carbon tetrachloride	2500	2350		ug/Kg		94	70 - 125
Chlorobenzene	2500	2410		ug/Kg		96	70 - 120
Chloroethane	2500	1950		ug/Kg		78	50 - 150
Chloroform	2500	2460		ug/Kg		98	70 - 120
Chloromethane	2500	1970		ug/Kg		79	50 - 134
cis-1,2-Dichloroethene	2500	2440		ug/Kg		98	70 - 120
cis-1,3-Dichloropropene	2500	2530		ug/Kg		101	70 - 120
Dibromochloromethane	2500	1970		ug/Kg		79	70 - 120
Dibromomethane	2500	2320		ug/Kg		93	70 - 120
Dichlorodifluoromethane	2500	933	*	ug/Kg		37	40 - 140
Ethylbenzene	2500	2500		ug/Kg		100	75 - 120
Hexachlorobutadiene	2500	2870		ug/Kg		115	65 - 135
Isopropylbenzene	2500	2550		ug/Kg		102	70 - 120
Methyl tert-butyl ether	2500	2270		ug/Kg		91	58 - 122
Methylene Chloride	2500	2140		ug/Kg		86	65 - 125
Naphthalene	2500	2690		ug/Kg		108	55 - 132
n-Butylbenzene	2500	2670		ug/Kg		107	75 - 120
N-Propylbenzene	2500	2540		ug/Kg		102	70 - 120
p-Isopropyltoluene	2500	2580		ug/Kg		103	70 - 120
sec-Butylbenzene	2500	2550		ug/Kg		102	70 - 120
Styrene	2500	2440		ug/Kg		98	75 - 120
tert-Butylbenzene	2500	2570		ug/Kg		103	70 - 120
Tetrachloroethene	2500	2450		ug/Kg		98	70 - 123
Toluene	2500	2530		ug/Kg		101	70 - 120
trans-1,2-Dichloroethene	2500	2340		ug/Kg		94	70 - 124
trans-1,3-Dichloropropene	2500	2360		ug/Kg		94	70 - 120
Trichloroethene	2500	2460		ug/Kg		98	70 - 120
Trichlorofluoromethane	2500	2130		ug/Kg		85	63 - 134
Vinyl chloride	2500	1870		ug/Kg		75	62 - 138
Xylenes, Total	5000	4950		ug/Kg		99	70 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*95*		*75 - 125*
4-Bromofluorobenzene (Surr)	*100*		*75 - 120*
Dibromofluoromethane	*92*		*75 - 120*
Toluene-d8 (Surr)	*100*		*75 - 120*

Lab Sample ID: MB 500-218981/6
Matrix: Solid
Analysis Batch: 218981

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.35		2.0	0.35	ug/Kg			01/08/14 10:56	1
1,1,1-Trichloroethane	<0.20		1.0	0.20	ug/Kg			01/08/14 10:56	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-218981/6
Matrix: Solid
Analysis Batch: 218981

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	<0.23		1.0	0.23	ug/Kg			01/08/14 10:56	1
1,1,2-Trichloroethane	<0.28		1.0	0.28	ug/Kg			01/08/14 10:56	1
1,1-Dichloroethane	<0.19		1.0	0.19	ug/Kg			01/08/14 10:56	1
1,1-Dichloroethene	<0.31		1.0	0.31	ug/Kg			01/08/14 10:56	1
1,1-Dichloropropene	<0.34		1.0	0.34	ug/Kg			01/08/14 10:56	1
1,2,3-Trichlorobenzene	<0.35		2.0	0.35	ug/Kg			01/08/14 10:56	1
1,2,3-Trichloropropane	<0.57		2.0	0.57	ug/Kg			01/08/14 10:56	1
1,2,4-Trichlorobenzene	<0.38		2.0	0.38	ug/Kg			01/08/14 10:56	1
1,2,4-Trimethylbenzene	<0.21		2.0	0.21	ug/Kg			01/08/14 10:56	1
1,2-Dibromo-3-Chloropropane	<0.87		2.0	0.87	ug/Kg			01/08/14 10:56	1
1,2-Dibromoethane	<0.31		2.0	0.31	ug/Kg			01/08/14 10:56	1
1,2-Dichlorobenzene	<0.21		2.0	0.21	ug/Kg			01/08/14 10:56	1
1,2-Dichloroethane	<0.29		1.0	0.29	ug/Kg			01/08/14 10:56	1
1,2-Dichloropropane	<0.20		1.0	0.20	ug/Kg			01/08/14 10:56	1
1,3,5-Trimethylbenzene	<0.21		2.0	0.21	ug/Kg			01/08/14 10:56	1
1,3-Dichlorobenzene	<0.26		2.0	0.26	ug/Kg			01/08/14 10:56	1
1,3-Dichloropropane	<0.13		1.0	0.13	ug/Kg			01/08/14 10:56	1
1,4-Dichlorobenzene	<0.17		2.0	0.17	ug/Kg			01/08/14 10:56	1
2,2-Dichloropropane	<0.32		1.0	0.32	ug/Kg			01/08/14 10:56	1
2-Chlorotoluene	<0.21		1.0	0.21	ug/Kg			01/08/14 10:56	1
4-Chlorotoluene	<0.20		1.0	0.20	ug/Kg			01/08/14 10:56	1
Benzene	<0.074		0.25	0.074	ug/Kg			01/08/14 10:56	1
Bromobenzene	<0.43		2.0	0.43	ug/Kg			01/08/14 10:56	1
Bromochloromethane	<0.38		2.0	0.38	ug/Kg			01/08/14 10:56	1
Bromodichloromethane	<0.34		2.0	0.34	ug/Kg			01/08/14 10:56	1
Bromoform	<0.44		2.0	0.44	ug/Kg			01/08/14 10:56	1
Bromomethane	<0.68		2.0	0.68	ug/Kg			01/08/14 10:56	1
Carbon tetrachloride	<0.26		1.0	0.26	ug/Kg			01/08/14 10:56	1
Chlorobenzene	<0.14		1.0	0.14	ug/Kg			01/08/14 10:56	1
Chloroethane	<0.44		2.0	0.44	ug/Kg			01/08/14 10:56	1
Chloroform	<0.21		1.0	0.21	ug/Kg			01/08/14 10:56	1
Chloromethane	<0.46		2.0	0.46	ug/Kg			01/08/14 10:56	1
cis-1,2-Dichloroethene	<0.12		1.0	0.12	ug/Kg			01/08/14 10:56	1
cis-1,3-Dichloropropene	<0.18		1.0	0.18	ug/Kg			01/08/14 10:56	1
Dibromochloromethane	<0.35		2.0	0.35	ug/Kg			01/08/14 10:56	1
Dibromomethane	<0.48		2.0	0.48	ug/Kg			01/08/14 10:56	1
Dichlorodifluoromethane	<0.51		2.0	0.51	ug/Kg			01/08/14 10:56	1
Ethylbenzene	<0.13		0.25	0.13	ug/Kg			01/08/14 10:56	1
Hexachlorobutadiene	<0.35		2.0	0.35	ug/Kg			01/08/14 10:56	1
Isopropyl ether	<0.15		2.0	0.15	ug/Kg			01/08/14 10:56	1
Isopropylbenzene	<0.25		2.0	0.25	ug/Kg			01/08/14 10:56	1
Methyl tert-butyl ether	<0.43		2.0	0.43	ug/Kg			01/08/14 10:56	1
Methylene Chloride	<0.68		5.0	0.68	ug/Kg			01/08/14 10:56	1
Naphthalene	<0.49		2.0	0.49	ug/Kg			01/08/14 10:56	1
n-Butylbenzene	<0.13		1.0	0.13	ug/Kg			01/08/14 10:56	1
N-Propylbenzene	<0.18		2.0	0.18	ug/Kg			01/08/14 10:56	1
p-Isopropyltoluene	<0.19		2.0	0.19	ug/Kg			01/08/14 10:56	1
sec-Butylbenzene	<0.15		1.0	0.15	ug/Kg			01/08/14 10:56	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-218981/6
Matrix: Solid
Analysis Batch: 218981

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	<0.099		1.0	0.099	ug/Kg			01/08/14 10:56	1
tert-Butylbenzene	<0.14		1.0	0.14	ug/Kg			01/08/14 10:56	1
Tetrachloroethene	<0.17		1.0	0.17	ug/Kg			01/08/14 10:56	1
Toluene	<0.12		0.25	0.12	ug/Kg			01/08/14 10:56	1
trans-1,2-Dichloroethene	<0.25		1.0	0.25	ug/Kg			01/08/14 10:56	1
trans-1,3-Dichloropropene	<0.21		1.0	0.21	ug/Kg			01/08/14 10:56	1
Trichloroethene	<0.19		0.50	0.19	ug/Kg			01/08/14 10:56	1
Trichlorofluoromethane	<0.42		2.0	0.42	ug/Kg			01/08/14 10:56	1
Vinyl chloride	<0.10		0.25	0.10	ug/Kg			01/08/14 10:56	1
Xylenes, Total	<0.068		0.50	0.068	ug/Kg			01/08/14 10:56	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*91*		*75 - 125*		*01/08/14 10:56*	*1*
4-Bromofluorobenzene (Surr)	*109*		*75 - 120*		*01/08/14 10:56*	*1*
Dibromofluoromethane	*84*		*75 - 120*		*01/08/14 10:56*	*1*
Toluene-d8 (Surr)	*97*		*75 - 120*		*01/08/14 10:56*	*1*

Lab Sample ID: LCS 500-218981/4
Matrix: Solid
Analysis Batch: 218981

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	50.0	54.2		ug/Kg		108	75 - 120
1,1,1-Trichloroethane	50.0	52.6		ug/Kg		105	70 - 123
1,1,2,2-Tetrachloroethane	50.0	45.7		ug/Kg		91	70 - 128
1,1,2-Trichloroethane	50.0	45.3		ug/Kg		91	69 - 120
1,1-Dichloroethane	50.0	49.3		ug/Kg		99	68 - 121
1,1-Dichloroethene	50.0	44.6		ug/Kg		89	58 - 122
1,1-Dichloropropene	50.0	50.2		ug/Kg		100	70 - 120
1,2,3-Trichlorobenzene	50.0	53.3		ug/Kg		107	56 - 137
1,2,3-Trichloropropane	50.0	46.4		ug/Kg		93	70 - 120
1,2,4-Trichlorobenzene	50.0	56.3		ug/Kg		113	65 - 121
1,2,4-Trimethylbenzene	50.0	55.0		ug/Kg		110	75 - 121
1,2-Dibromo-3-Chloropropane	50.0	43.8		ug/Kg		88	60 - 121
1,2-Dibromoethane	50.0	45.0		ug/Kg		90	70 - 120
1,2-Dichlorobenzene	50.0	50.1		ug/Kg		100	75 - 120
1,2-Dichloroethane	50.0	44.8		ug/Kg		90	69 - 120
1,2-Dichloropropane	50.0	49.6		ug/Kg		99	70 - 120
1,3,5-Trimethylbenzene	50.0	56.4		ug/Kg		113	75 - 123
1,3-Dichlorobenzene	50.0	51.7		ug/Kg		103	70 - 120
1,3-Dichloropropane	50.0	45.6		ug/Kg		91	70 - 120
1,4-Dichlorobenzene	50.0	49.1		ug/Kg		98	75 - 120
2,2-Dichloropropane	50.0	56.4		ug/Kg		113	67 - 125
2-Chlorotoluene	50.0	53.5		ug/Kg		107	70 - 120
4-Chlorotoluene	50.0	51.9		ug/Kg		104	70 - 120
Benzene	50.0	48.9		ug/Kg		98	70 - 120
Bromobenzene	50.0	49.3		ug/Kg		99	70 - 120
Bromochloromethane	50.0	45.3		ug/Kg		91	67 - 122

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-218981/4
Matrix: Solid
Analysis Batch: 218981

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Bromodichloromethane	50.0	47.6		ug/Kg		95	70 - 120
Bromoform	50.0	44.4		ug/Kg		89	70 - 125
Bromomethane	50.0	42.3		ug/Kg		85	50 - 150
Carbon tetrachloride	50.0	50.5		ug/Kg		101	70 - 125
Chlorobenzene	50.0	50.3		ug/Kg		101	70 - 120
Chloroethane	50.0	46.9		ug/Kg		94	50 - 150
Chloroform	50.0	49.2		ug/Kg		98	70 - 120
Chloromethane	50.0	53.7		ug/Kg		107	50 - 134
cis-1,2-Dichloroethene	50.0	48.8		ug/Kg		98	70 - 120
cis-1,3-Dichloropropene	50.0	50.5		ug/Kg		101	70 - 120
Dibromochloromethane	50.0	40.7		ug/Kg		81	70 - 120
Dibromomethane	50.0	42.3		ug/Kg		85	70 - 120
Dichlorodifluoromethane	50.0	41.1		ug/Kg		82	40 - 140
Ethylbenzene	50.0	53.0		ug/Kg		106	75 - 120
Hexachlorobutadiene	50.0	62.0		ug/Kg		124	65 - 135
Isopropylbenzene	50.0	55.4		ug/Kg		111	70 - 120
Methyl tert-butyl ether	50.0	41.1		ug/Kg		82	58 - 122
Methylene Chloride	50.0	43.4		ug/Kg		87	65 - 125
Naphthalene	50.0	50.0		ug/Kg		100	55 - 132
n-Butylbenzene	50.0	60.0		ug/Kg		120	75 - 120
N-Propylbenzene	50.0	55.3		ug/Kg		111	70 - 120
p-Isopropyltoluene	50.0	57.3		ug/Kg		115	70 - 120
sec-Butylbenzene	50.0	56.8		ug/Kg		114	70 - 120
Styrene	50.0	51.4		ug/Kg		103	75 - 120
tert-Butylbenzene	50.0	56.1		ug/Kg		112	70 - 120
Tetrachloroethene	50.0	53.3		ug/Kg		107	70 - 123
Toluene	50.0	53.8		ug/Kg		108	70 - 120
trans-1,2-Dichloroethene	50.0	47.4		ug/Kg		95	70 - 124
trans-1,3-Dichloropropene	50.0	47.2		ug/Kg		94	70 - 120
Trichloroethene	50.0	49.3		ug/Kg		99	70 - 120
Trichlorofluoromethane	50.0	55.2		ug/Kg		110	63 - 134
Vinyl chloride	50.0	52.0		ug/Kg		104	62 - 138
Xylenes, Total	100	107		ug/Kg		107	70 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*87*		*75 - 125*
4-Bromofluorobenzene (Surr)	*100*		*75 - 120*
Dibromofluoromethane	*88*		*75 - 120*
Toluene-d8 (Surr)	*103*		*75 - 120*

Lab Sample ID: MB 500-219067/6
Matrix: Solid
Analysis Batch: 219067

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.35		2.0	0.35	ug/Kg			01/08/14 23:22	1
1,1,1-Trichloroethane	<0.20		1.0	0.20	ug/Kg			01/08/14 23:22	1
1,1,2,2-Tetrachloroethane	<0.23		1.0	0.23	ug/Kg			01/08/14 23:22	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-219067/6
Matrix: Solid
Analysis Batch: 219067

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloroethane	<0.28		1.0	0.28	ug/Kg			01/08/14 23:22	1
1,1-Dichloroethane	<0.19		1.0	0.19	ug/Kg			01/08/14 23:22	1
1,1-Dichloroethene	<0.31		1.0	0.31	ug/Kg			01/08/14 23:22	1
1,1-Dichloropropene	<0.34		1.0	0.34	ug/Kg			01/08/14 23:22	1
1,2,3-Trichlorobenzene	<0.35		2.0	0.35	ug/Kg			01/08/14 23:22	1
1,2,3-Trichloropropane	<0.57		2.0	0.57	ug/Kg			01/08/14 23:22	1
1,2,4-Trichlorobenzene	<0.38		2.0	0.38	ug/Kg			01/08/14 23:22	1
1,2,4-Trimethylbenzene	<0.21		2.0	0.21	ug/Kg			01/08/14 23:22	1
1,2-Dibromo-3-Chloropropane	<0.87		2.0	0.87	ug/Kg			01/08/14 23:22	1
1,2-Dibromoethane	<0.31		2.0	0.31	ug/Kg			01/08/14 23:22	1
1,2-Dichlorobenzene	<0.21		2.0	0.21	ug/Kg			01/08/14 23:22	1
1,2-Dichloroethane	<0.29		1.0	0.29	ug/Kg			01/08/14 23:22	1
1,2-Dichloropropane	<0.20		1.0	0.20	ug/Kg			01/08/14 23:22	1
1,3,5-Trimethylbenzene	<0.21		2.0	0.21	ug/Kg			01/08/14 23:22	1
1,3-Dichlorobenzene	<0.26		2.0	0.26	ug/Kg			01/08/14 23:22	1
1,3-Dichloropropane	<0.13		1.0	0.13	ug/Kg			01/08/14 23:22	1
1,4-Dichlorobenzene	<0.17		2.0	0.17	ug/Kg			01/08/14 23:22	1
2,2-Dichloropropane	<0.32		1.0	0.32	ug/Kg			01/08/14 23:22	1
2-Chlorotoluene	<0.21		1.0	0.21	ug/Kg			01/08/14 23:22	1
4-Chlorotoluene	<0.20		1.0	0.20	ug/Kg			01/08/14 23:22	1
Benzene	<0.074		0.25	0.074	ug/Kg			01/08/14 23:22	1
Bromobenzene	<0.43		2.0	0.43	ug/Kg			01/08/14 23:22	1
Bromochloromethane	<0.38		2.0	0.38	ug/Kg			01/08/14 23:22	1
Bromodichloromethane	<0.34		2.0	0.34	ug/Kg			01/08/14 23:22	1
Bromoform	<0.44		2.0	0.44	ug/Kg			01/08/14 23:22	1
Bromomethane	<0.68		2.0	0.68	ug/Kg			01/08/14 23:22	1
Carbon tetrachloride	<0.26		1.0	0.26	ug/Kg			01/08/14 23:22	1
Chlorobenzene	<0.14		1.0	0.14	ug/Kg			01/08/14 23:22	1
Chloroethane	<0.44		2.0	0.44	ug/Kg			01/08/14 23:22	1
Chloroform	<0.21		1.0	0.21	ug/Kg			01/08/14 23:22	1
Chloromethane	<0.46		2.0	0.46	ug/Kg			01/08/14 23:22	1
cis-1,2-Dichloroethene	<0.12		1.0	0.12	ug/Kg			01/08/14 23:22	1
cis-1,3-Dichloropropene	<0.18		1.0	0.18	ug/Kg			01/08/14 23:22	1
Dibromochloromethane	<0.35		2.0	0.35	ug/Kg			01/08/14 23:22	1
Dibromomethane	<0.48		2.0	0.48	ug/Kg			01/08/14 23:22	1
Dichlorodifluoromethane	<0.51		2.0	0.51	ug/Kg			01/08/14 23:22	1
Ethylbenzene	<0.13		0.25	0.13	ug/Kg			01/08/14 23:22	1
Hexachlorobutadiene	<0.35		2.0	0.35	ug/Kg			01/08/14 23:22	1
Isopropyl ether	<0.15		2.0	0.15	ug/Kg			01/08/14 23:22	1
Isopropylbenzene	<0.25		2.0	0.25	ug/Kg			01/08/14 23:22	1
Methyl tert-butyl ether	<0.43		2.0	0.43	ug/Kg			01/08/14 23:22	1
Methylene Chloride	<0.68		5.0	0.68	ug/Kg			01/08/14 23:22	1
Naphthalene	<0.49		2.0	0.49	ug/Kg			01/08/14 23:22	1
n-Butylbenzene	<0.13		1.0	0.13	ug/Kg			01/08/14 23:22	1
N-Propylbenzene	<0.18		2.0	0.18	ug/Kg			01/08/14 23:22	1
p-Isopropyltoluene	<0.19		2.0	0.19	ug/Kg			01/08/14 23:22	1
sec-Butylbenzene	<0.15		1.0	0.15	ug/Kg			01/08/14 23:22	1
Styrene	<0.099		1.0	0.099	ug/Kg			01/08/14 23:22	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-219067/6
Matrix: Solid
Analysis Batch: 219067

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
tert-Butylbenzene	<0.14		1.0	0.14	ug/Kg			01/08/14 23:22	1
Tetrachloroethene	<0.17		1.0	0.17	ug/Kg			01/08/14 23:22	1
Toluene	<0.12		0.25	0.12	ug/Kg			01/08/14 23:22	1
trans-1,2-Dichloroethene	<0.25		1.0	0.25	ug/Kg			01/08/14 23:22	1
trans-1,3-Dichloropropene	<0.21		1.0	0.21	ug/Kg			01/08/14 23:22	1
Trichloroethene	<0.19		0.50	0.19	ug/Kg			01/08/14 23:22	1
Trichlorofluoromethane	<0.42		2.0	0.42	ug/Kg			01/08/14 23:22	1
Vinyl chloride	<0.10		0.25	0.10	ug/Kg			01/08/14 23:22	1
Xylenes, Total	<0.068		0.50	0.068	ug/Kg			01/08/14 23:22	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*96*		*75 - 125*		*01/08/14 23:22*	*1*
4-Bromofluorobenzene (Surr)	*109*		*75 - 120*		*01/08/14 23:22*	*1*
Dibromofluoromethane	*84*		*75 - 120*		*01/08/14 23:22*	*1*
Toluene-d8 (Surr)	*95*		*75 - 120*		*01/08/14 23:22*	*1*

Lab Sample ID: LCS 500-219067/4
Matrix: Solid
Analysis Batch: 219067

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	50.0	53.1		ug/Kg		106	75 - 120
1,1,1-Trichloroethane	50.0	52.6		ug/Kg		105	70 - 123
1,1,2,2-Tetrachloroethane	50.0	54.1		ug/Kg		108	70 - 128
1,1,2-Trichloroethane	50.0	51.1		ug/Kg		102	69 - 120
1,1-Dichloroethane	50.0	51.4		ug/Kg		103	68 - 121
1,1-Dichloroethene	50.0	45.0		ug/Kg		90	58 - 122
1,1-Dichloropropene	50.0	50.0		ug/Kg		100	70 - 120
1,2,3-Trichlorobenzene	50.0	59.1		ug/Kg		118	56 - 137
1,2,3-Trichloropropane	50.0	53.8		ug/Kg		108	70 - 120
1,2,4-Trichlorobenzene	50.0	58.9		ug/Kg		118	65 - 121
1,2,4-Trimethylbenzene	50.0	54.6		ug/Kg		109	75 - 121
1,2-Dibromo-3-Chloropropane	50.0	50.3		ug/Kg		101	60 - 121
1,2-Dibromoethane	50.0	50.1		ug/Kg		100	70 - 120
1,2-Dichlorobenzene	50.0	53.4		ug/Kg		107	75 - 120
1,2-Dichloroethane	50.0	49.9		ug/Kg		100	69 - 120
1,2-Dichloropropane	50.0	54.7		ug/Kg		109	70 - 120
1,3,5-Trimethylbenzene	50.0	55.0		ug/Kg		110	75 - 123
1,3-Dichlorobenzene	50.0	52.5		ug/Kg		105	70 - 120
1,3-Dichloropropane	50.0	51.8		ug/Kg		104	70 - 120
1,4-Dichlorobenzene	50.0	50.6		ug/Kg		101	75 - 120
2,2-Dichloropropane	50.0	53.4		ug/Kg		107	67 - 125
2-Chlorotoluene	50.0	54.0		ug/Kg		108	70 - 120
4-Chlorotoluene	50.0	53.0		ug/Kg		106	70 - 120
Benzene	50.0	50.9		ug/Kg		102	70 - 120
Bromobenzene	50.0	53.1		ug/Kg		106	70 - 120
Bromochloromethane	50.0	49.0		ug/Kg		98	67 - 122
Bromodichloromethane	50.0	53.2		ug/Kg		106	70 - 120

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-219067/4
Matrix: Solid
Analysis Batch: 219067

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Bromoform	50.0	47.6		ug/Kg		95	70 - 125
Bromomethane	50.0	42.1		ug/Kg		84	50 - 150
Carbon tetrachloride	50.0	50.2		ug/Kg		100	70 - 125
Chlorobenzene	50.0	52.0		ug/Kg		104	70 - 120
Chloroethane	50.0	50.2		ug/Kg		100	50 - 150
Chloroform	50.0	51.7		ug/Kg		103	70 - 120
Chloromethane	50.0	59.5		ug/Kg		119	50 - 134
cis-1,2-Dichloroethene	50.0	50.7		ug/Kg		101	70 - 120
cis-1,3-Dichloropropene	50.0	52.8		ug/Kg		106	70 - 120
Dibromochloromethane	50.0	44.3		ug/Kg		89	70 - 120
Dibromomethane	50.0	49.4		ug/Kg		99	70 - 120
Dichlorodifluoromethane	50.0	42.3		ug/Kg		85	40 - 140
Ethylbenzene	50.0	53.6		ug/Kg		107	75 - 120
Hexachlorobutadiene	50.0	60.9		ug/Kg		122	65 - 135
Isopropylbenzene	50.0	53.7		ug/Kg		107	70 - 120
Methyl tert-butyl ether	50.0	49.3		ug/Kg		99	58 - 122
Methylene Chloride	50.0	46.7		ug/Kg		93	65 - 125
Naphthalene	50.0	59.3		ug/Kg		119	55 - 132
n-Butylbenzene	50.0	55.7		ug/Kg		111	75 - 120
N-Propylbenzene	50.0	54.3		ug/Kg		109	70 - 120
p-Isopropyltoluene	50.0	54.0		ug/Kg		108	70 - 120
sec-Butylbenzene	50.0	54.1		ug/Kg		108	70 - 120
Styrene	50.0	53.8		ug/Kg		108	75 - 120
tert-Butylbenzene	50.0	53.6		ug/Kg		107	70 - 120
Tetrachloroethene	50.0	50.8		ug/Kg		102	70 - 123
Toluene	50.0	52.9		ug/Kg		106	70 - 120
trans-1,2-Dichloroethene	50.0	48.7		ug/Kg		97	70 - 124
trans-1,3-Dichloropropene	50.0	51.6		ug/Kg		103	70 - 120
Trichloroethene	50.0	50.9		ug/Kg		102	70 - 120
Trichlorofluoromethane	50.0	55.0		ug/Kg		110	63 - 134
Vinyl chloride	50.0	54.7		ug/Kg		109	62 - 138
Xylenes, Total	100	105		ug/Kg		105	70 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*94*		*75 - 125*
4-Bromofluorobenzene (Surr)	*102*		*75 - 120*
Dibromofluoromethane	*93*		*75 - 120*
Toluene-d8 (Surr)	*97*		*75 - 120*

Lab Sample ID: MB 500-219125/6
Matrix: Solid
Analysis Batch: 219125

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.35		2.0	0.35	ug/Kg			01/09/14 11:28	1
1,1,1-Trichloroethane	<0.20		1.0	0.20	ug/Kg			01/09/14 11:28	1
1,1,2,2-Tetrachloroethane	<0.23		1.0	0.23	ug/Kg			01/09/14 11:28	1
1,1,2-Trichloroethane	<0.28		1.0	0.28	ug/Kg			01/09/14 11:28	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-219125/6
Matrix: Solid
Analysis Batch: 219125

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	<0.19		1.0	0.19	ug/Kg			01/09/14 11:28	1
1,1-Dichloroethene	<0.31		1.0	0.31	ug/Kg			01/09/14 11:28	1
1,1-Dichloropropene	<0.34		1.0	0.34	ug/Kg			01/09/14 11:28	1
1,2,3-Trichlorobenzene	<0.35		2.0	0.35	ug/Kg			01/09/14 11:28	1
1,2,3-Trichloropropane	<0.57		2.0	0.57	ug/Kg			01/09/14 11:28	1
1,2,4-Trichlorobenzene	<0.38		2.0	0.38	ug/Kg			01/09/14 11:28	1
1,2,4-Trimethylbenzene	<0.21		2.0	0.21	ug/Kg			01/09/14 11:28	1
1,2-Dibromo-3-Chloropropane	<0.87		2.0	0.87	ug/Kg			01/09/14 11:28	1
1,2-Dibromoethane	<0.31		2.0	0.31	ug/Kg			01/09/14 11:28	1
1,2-Dichlorobenzene	<0.21		2.0	0.21	ug/Kg			01/09/14 11:28	1
1,2-Dichloroethane	<0.29		1.0	0.29	ug/Kg			01/09/14 11:28	1
1,2-Dichloropropane	<0.20		1.0	0.20	ug/Kg			01/09/14 11:28	1
1,3,5-Trimethylbenzene	<0.21		2.0	0.21	ug/Kg			01/09/14 11:28	1
1,3-Dichlorobenzene	<0.26		2.0	0.26	ug/Kg			01/09/14 11:28	1
1,3-Dichloropropane	<0.13		1.0	0.13	ug/Kg			01/09/14 11:28	1
1,4-Dichlorobenzene	<0.17		2.0	0.17	ug/Kg			01/09/14 11:28	1
2,2-Dichloropropane	<0.32		1.0	0.32	ug/Kg			01/09/14 11:28	1
2-Chlorotoluene	<0.21		1.0	0.21	ug/Kg			01/09/14 11:28	1
4-Chlorotoluene	<0.20		1.0	0.20	ug/Kg			01/09/14 11:28	1
Benzene	<0.074		0.25	0.074	ug/Kg			01/09/14 11:28	1
Bromobenzene	<0.43		2.0	0.43	ug/Kg			01/09/14 11:28	1
Bromochloromethane	<0.38		2.0	0.38	ug/Kg			01/09/14 11:28	1
Bromodichloromethane	<0.34		2.0	0.34	ug/Kg			01/09/14 11:28	1
Bromoform	<0.44		2.0	0.44	ug/Kg			01/09/14 11:28	1
Bromomethane	<0.68		2.0	0.68	ug/Kg			01/09/14 11:28	1
Carbon tetrachloride	<0.26		1.0	0.26	ug/Kg			01/09/14 11:28	1
Chlorobenzene	<0.14		1.0	0.14	ug/Kg			01/09/14 11:28	1
Chloroethane	<0.44		2.0	0.44	ug/Kg			01/09/14 11:28	1
Chloroform	<0.21		1.0	0.21	ug/Kg			01/09/14 11:28	1
Chloromethane	<0.46		2.0	0.46	ug/Kg			01/09/14 11:28	1
cis-1,2-Dichloroethene	<0.12		1.0	0.12	ug/Kg			01/09/14 11:28	1
cis-1,3-Dichloropropene	<0.18		1.0	0.18	ug/Kg			01/09/14 11:28	1
Dibromochloromethane	<0.35		2.0	0.35	ug/Kg			01/09/14 11:28	1
Dibromomethane	<0.48		2.0	0.48	ug/Kg			01/09/14 11:28	1
Dichlorodifluoromethane	<0.51		2.0	0.51	ug/Kg			01/09/14 11:28	1
Ethylbenzene	<0.13		0.25	0.13	ug/Kg			01/09/14 11:28	1
Hexachlorobutadiene	<0.35		2.0	0.35	ug/Kg			01/09/14 11:28	1
Isopropyl ether	<0.15		2.0	0.15	ug/Kg			01/09/14 11:28	1
Isopropylbenzene	<0.25		2.0	0.25	ug/Kg			01/09/14 11:28	1
Methyl tert-butyl ether	<0.43		2.0	0.43	ug/Kg			01/09/14 11:28	1
Methylene Chloride	<0.68		5.0	0.68	ug/Kg			01/09/14 11:28	1
Naphthalene	<0.49		2.0	0.49	ug/Kg			01/09/14 11:28	1
n-Butylbenzene	<0.13		1.0	0.13	ug/Kg			01/09/14 11:28	1
N-Propylbenzene	<0.18		2.0	0.18	ug/Kg			01/09/14 11:28	1
p-Isopropyltoluene	<0.19		2.0	0.19	ug/Kg			01/09/14 11:28	1
sec-Butylbenzene	<0.15		1.0	0.15	ug/Kg			01/09/14 11:28	1
Styrene	<0.099		1.0	0.099	ug/Kg			01/09/14 11:28	1
tert-Butylbenzene	<0.14		1.0	0.14	ug/Kg			01/09/14 11:28	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-219125/6
Matrix: Solid
Analysis Batch: 219125

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	<0.17		1.0	0.17	ug/Kg			01/09/14 11:28	1
Toluene	<0.12		0.25	0.12	ug/Kg			01/09/14 11:28	1
trans-1,2-Dichloroethene	<0.25		1.0	0.25	ug/Kg			01/09/14 11:28	1
trans-1,3-Dichloropropene	<0.21		1.0	0.21	ug/Kg			01/09/14 11:28	1
Trichloroethene	<0.19		0.50	0.19	ug/Kg			01/09/14 11:28	1
Trichlorofluoromethane	<0.42		2.0	0.42	ug/Kg			01/09/14 11:28	1
Vinyl chloride	<0.10		0.25	0.10	ug/Kg			01/09/14 11:28	1
Xylenes, Total	<0.068		0.50	0.068	ug/Kg			01/09/14 11:28	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*94*		*75 - 125*		*01/09/14 11:28*	*1*
4-Bromofluorobenzene (Surr)	*104*		*75 - 120*		*01/09/14 11:28*	*1*
Dibromofluoromethane	*84*		*75 - 120*		*01/09/14 11:28*	*1*
Toluene-d8 (Surr)	*92*		*75 - 120*		*01/09/14 11:28*	*1*

Lab Sample ID: LCS 500-219125/4
Matrix: Solid
Analysis Batch: 219125

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	50.0	48.8		ug/Kg		98	75 - 120
1,1,1-Trichloroethane	50.0	49.1		ug/Kg		98	70 - 123
1,1,2,2-Tetrachloroethane	50.0	45.0		ug/Kg		90	70 - 128
1,1,2-Trichloroethane	50.0	44.2		ug/Kg		88	69 - 120
1,1-Dichloroethane	50.0	47.3		ug/Kg		95	68 - 121
1,1-Dichloroethene	50.0	41.6		ug/Kg		83	58 - 122
1,1-Dichloropropene	50.0	47.1		ug/Kg		94	70 - 120
1,2,3-Trichlorobenzene	50.0	54.4		ug/Kg		109	56 - 137
1,2,3-Trichloropropane	50.0	45.9		ug/Kg		92	70 - 120
1,2,4-Trichlorobenzene	50.0	56.0		ug/Kg		112	65 - 121
1,2,4-Trimethylbenzene	50.0	51.2		ug/Kg		102	75 - 121
1,2-Dibromo-3-Chloropropane	50.0	42.5		ug/Kg		85	60 - 121
1,2-Dibromoethane	50.0	43.1		ug/Kg		86	70 - 120
1,2-Dichlorobenzene	50.0	48.3		ug/Kg		97	75 - 120
1,2-Dichloroethane	50.0	43.8		ug/Kg		88	69 - 120
1,2-Dichloropropane	50.0	49.1		ug/Kg		98	70 - 120
1,3,5-Trimethylbenzene	50.0	51.7		ug/Kg		103	75 - 123
1,3-Dichlorobenzene	50.0	48.9		ug/Kg		98	70 - 120
1,3-Dichloropropane	50.0	45.3		ug/Kg		91	70 - 120
1,4-Dichlorobenzene	50.0	46.7		ug/Kg		93	75 - 120
2,2-Dichloropropane	50.0	51.7		ug/Kg		103	67 - 125
2-Chlorotoluene	50.0	50.0		ug/Kg		100	70 - 120
4-Chlorotoluene	50.0	49.4		ug/Kg		99	70 - 120
Benzene	50.0	47.1		ug/Kg		94	70 - 120
Bromobenzene	50.0	48.1		ug/Kg		96	70 - 120
Bromochloromethane	50.0	43.2		ug/Kg		86	67 - 122
Bromodichloromethane	50.0	47.1		ug/Kg		94	70 - 120
Bromoform	50.0	41.6		ug/Kg		83	70 - 125

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-219125/4
Matrix: Solid
Analysis Batch: 219125

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Bromomethane	50.0	41.2		ug/Kg		82	50 - 150
Carbon tetrachloride	50.0	47.2		ug/Kg		94	70 - 125
Chlorobenzene	50.0	48.0		ug/Kg		96	70 - 120
Chloroethane	50.0	46.6		ug/Kg		93	50 - 150
Chloroform	50.0	46.6		ug/Kg		93	70 - 120
Chloromethane	50.0	55.7		ug/Kg		111	50 - 134
cis-1,2-Dichloroethene	50.0	46.4		ug/Kg		93	70 - 120
cis-1,3-Dichloropropene	50.0	46.7		ug/Kg		93	70 - 120
Dibromochloromethane	50.0	37.9		ug/Kg		76	70 - 120
Dibromomethane	50.0	43.3		ug/Kg		87	70 - 120
Dichlorodifluoromethane	50.0	40.9		ug/Kg		82	40 - 140
Ethylbenzene	50.0	49.5		ug/Kg		99	75 - 120
Hexachlorobutadiene	50.0	56.8		ug/Kg		114	65 - 135
Isopropylbenzene	50.0	50.4		ug/Kg		101	70 - 120
Methyl tert-butyl ether	50.0	42.2		ug/Kg		84	58 - 122
Methylene Chloride	50.0	42.1		ug/Kg		84	65 - 125
Naphthalene	50.0	52.9		ug/Kg		106	55 - 132
n-Butylbenzene	50.0	54.5		ug/Kg		109	75 - 120
N-Propylbenzene	50.0	51.5		ug/Kg		103	70 - 120
p-Isopropyltoluene	50.0	52.3		ug/Kg		105	70 - 120
sec-Butylbenzene	50.0	51.5		ug/Kg		103	70 - 120
Styrene	50.0	48.9		ug/Kg		98	75 - 120
tert-Butylbenzene	50.0	50.8		ug/Kg		102	70 - 120
Tetrachloroethene	50.0	48.1		ug/Kg		96	70 - 123
Toluene	50.0	48.6		ug/Kg		97	70 - 120
trans-1,2-Dichloroethene	50.0	44.5		ug/Kg		89	70 - 124
trans-1,3-Dichloropropene	50.0	45.1		ug/Kg		90	70 - 120
Trichloroethene	50.0	47.6		ug/Kg		95	70 - 120
Trichlorofluoromethane	50.0	54.1		ug/Kg		108	63 - 134
Vinyl chloride	50.0	52.7		ug/Kg		105	62 - 138
Xylenes, Total	100	98.7		ug/Kg		99	70 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*89*		*75 - 125*
4-Bromofluorobenzene (Surr)	*99*		*75 - 120*
Dibromofluoromethane	*89*		*75 - 120*
Toluene-d8 (Surr)	*98*		*75 - 120*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 500-218973/1-A
Matrix: Solid
Analysis Batch: 219283

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 218973

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<5.9		17	5.9	ug/Kg		01/08/14 07:03	01/10/14 08:16	1
PCB-1221	<7.3		17	7.3	ug/Kg		01/08/14 07:03	01/10/14 08:16	1
PCB-1232	<7.3		17	7.3	ug/Kg		01/08/14 07:03	01/10/14 08:16	1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: MB 500-218973/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 219283 — **Prep Batch: 218973**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1242	<5.5		17	5.5	ug/Kg		01/08/14 07:03	01/10/14 08:16	1
PCB-1248	<6.6		17	6.6	ug/Kg		01/08/14 07:03	01/10/14 08:16	1
PCB-1254	<3.6		17	3.6	ug/Kg		01/08/14 07:03	01/10/14 08:16	1
PCB-1260	<8.2		17	8.2	ug/Kg		01/08/14 07:03	01/10/14 08:16	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*80*		*50 - 116*	*01/08/14 07:03*	*01/10/14 08:16*	*1*
DCB Decachlorobiphenyl	*94*		*48 - 142*	*01/08/14 07:03*	*01/10/14 08:16*	*1*

Lab Sample ID: LCS 500-218973/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 219283 — **Prep Batch: 218973**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
PCB-1016	167	169		ug/Kg		101	59 - 110
PCB-1260	167	175		ug/Kg		105	69 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene	*81*		*50 - 116*
DCB Decachlorobiphenyl	*88*		*48 - 142*

Lab Sample ID: 500-69634-1 MS — **Client Sample ID: B-186 (2-4)**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 219283 — **Prep Batch: 218973**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
PCB-1016	<14		200	326	F1	ug/Kg	☼	163	59 - 110
PCB-1260	<19		200	229		ug/Kg	☼	114	69 - 120

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Tetrachloro-m-xylene	*80*		*50 - 116*
DCB Decachlorobiphenyl	*95*		*48 - 142*

Lab Sample ID: 500-69634-1 MSD — **Client Sample ID: B-186 (2-4)**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 219283 — **Prep Batch: 218973**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
PCB-1016	<14		199	79.7	F1 F2	ug/Kg	☼	40	59 - 110	121	30
PCB-1260	<19		199	<20	F1	ug/Kg	☼	0	69 - 120	NC	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Tetrachloro-m-xylene	*73*		*50 - 116*
DCB Decachlorobiphenyl	*98*		*48 - 142*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: MB 500-218974/1-A
Matrix: Solid
Analysis Batch: 219283

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 218974

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<5.9		17	5.9	ug/Kg		01/08/14 07:19	01/10/14 18:46	1
PCB-1221	<7.3		17	7.3	ug/Kg		01/08/14 07:19	01/10/14 18:46	1
PCB-1232	<7.3		17	7.3	ug/Kg		01/08/14 07:19	01/10/14 18:46	1
PCB-1242	<5.5		17	5.5	ug/Kg		01/08/14 07:19	01/10/14 18:46	1
PCB-1248	<6.6		17	6.6	ug/Kg		01/08/14 07:19	01/10/14 18:46	1
PCB-1254	<3.6		17	3.6	ug/Kg		01/08/14 07:19	01/10/14 18:46	1
PCB-1260	<8.2		17	8.2	ug/Kg		01/08/14 07:19	01/10/14 18:46	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*80*		*50 - 116*	*01/08/14 07:19*	*01/10/14 18:46*	*1*
DCB Decachlorobiphenyl	*95*		*48 - 142*	*01/08/14 07:19*	*01/10/14 18:46*	*1*

Lab Sample ID: LCS 500-218974/2-A
Matrix: Solid
Analysis Batch: 219283

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 218974

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
PCB-1016			167	167		ug/Kg		100	59 - 110		
PCB-1260			167	159		ug/Kg		95	69 - 120		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene	*77*		*50 - 116*
DCB Decachlorobiphenyl	*78*		*48 - 142*

Lab Sample ID: 500-69634-21 MS
Matrix: Solid
Analysis Batch: 219283

Client Sample ID: B-191 (2-4)
Prep Type: Total/NA
Prep Batch: 218974

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
PCB-1016	<330		9250	<320	F1	ug/Kg	☼	0	59 - 110		
PCB-1260	<450		9250	<440	F1	ug/Kg	☼	0	69 - 120		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Tetrachloro-m-xylene	*0*	*D*	*50 - 116*
DCB Decachlorobiphenyl	*0*	*D*	*48 - 142*

Lab Sample ID: 500-69634-21 MSD
Matrix: Solid
Analysis Batch: 219283

Client Sample ID: B-191 (2-4)
Prep Type: Total/NA
Prep Batch: 218974

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
PCB-1016	<330		9550	<330	F1	ug/Kg	☼	0	59 - 110	NC	30
PCB-1260	<450		9550	<460	F1	ug/Kg	☼	0	69 - 120	NC	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Tetrachloro-m-xylene	*0*	*D*	*50 - 116*
DCB Decachlorobiphenyl	*0*	*D*	*48 - 142*

Client Sample ID: B-186 (2-4)

Lab Sample ID: 500-69634-1

Date Collected: 01/03/14 07:50

Matrix: Solid

Date Received: 01/07/14 10:10

Percent Solids: 81.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			218925	01/03/14 07:50	WRE	TAL CHI
Total/NA	Analysis	8260B		50	218981	01/08/14 17:32	BDA	TAL CHI
Total/NA	Prep	3541			218973	01/08/14 07:03	STW	TAL CHI
Total/NA	Analysis	8082		2	219283	01/10/14 16:41	GMO	TAL CHI
Total/NA	Analysis	Moisture		1	219085	01/08/14 16:35	LWN	TAL CHI

Client Sample ID: B-185 (1.5-3.5)

Lab Sample ID: 500-69634-2

Date Collected: 01/03/14 08:20

Matrix: Solid

Date Received: 01/07/14 10:10

Percent Solids: 87.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			218925	01/03/14 07:50	WRE	TAL CHI
Total/NA	Analysis	8260B		50	218981	01/08/14 17:57	BDA	TAL CHI
Total/NA	Prep	3541			218973	01/08/14 07:03	STW	TAL CHI
Total/NA	Analysis	8082		1	219283	01/10/14 09:26	GMO	TAL CHI
Total/NA	Analysis	Moisture		1	219085	01/08/14 16:35	LWN	TAL CHI

Client Sample ID: B-184 (2-4)

Lab Sample ID: 500-69634-3

Date Collected: 01/03/14 08:45

Matrix: Solid

Date Received: 01/07/14 10:10

Percent Solids: 85.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			218925	01/03/14 08:45	WRE	TAL CHI
Total/NA	Analysis	8260B		50	218981	01/08/14 18:22	BDA	TAL CHI
Total/NA	Prep	3541			218973	01/08/14 07:03	STW	TAL CHI
Total/NA	Analysis	8082		1	219283	01/10/14 09:40	GMO	TAL CHI
Total/NA	Analysis	Moisture		1	219085	01/08/14 16:35	LWN	TAL CHI

Client Sample ID: B-184 (14-16)

Lab Sample ID: 500-69634-4

Date Collected: 01/03/14 10:10

Matrix: Solid

Date Received: 01/07/14 10:10

Percent Solids: 94.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			218925	01/03/14 10:10	WRE	TAL CHI
Total/NA	Analysis	8260B		50	218981	01/08/14 18:47	BDA	TAL CHI
Total/NA	Prep	3541			218973	01/08/14 07:03	STW	TAL CHI
Total/NA	Analysis	8082		1	219283	01/10/14 09:54	GMO	TAL CHI
Total/NA	Analysis	Moisture		1	219085	01/08/14 16:35	LWN	TAL CHI

Client Sample ID: B-184 (18.5-20.5)

Lab Sample ID: 500-69634-5

Date Collected: 01/03/14 10:20
Matrix: Solid
Date Received: 01/07/14 10:10
Percent Solids: 92.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			218925	01/03/14 10:20	WRE	TAL CHI
Total/NA	Analysis	8260B		50	218981	01/08/14 19:12	BDA	TAL CHI
Total/NA	Prep	3541			218973	01/08/14 07:03	STW	TAL CHI
Total/NA	Analysis	8082		1	219283	01/10/14 10:08	GMO	TAL CHI
Total/NA	Analysis	Moisture		1	219085	01/08/14 16:35	LWN	TAL CHI

Client Sample ID: B-177 (2-4)

Lab Sample ID: 500-69634-6

Date Collected: 01/03/14 09:45
Matrix: Solid
Date Received: 01/07/14 10:10
Percent Solids: 82.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			218925	01/03/14 09:45	WRE	TAL CHI
Total/NA	Analysis	8260B		50	218981	01/08/14 19:37	BDA	TAL CHI
Total/NA	Prep	3541			218973	01/08/14 07:03	STW	TAL CHI
Total/NA	Analysis	8082		1	219283	01/10/14 10:22	GMO	TAL CHI
Total/NA	Analysis	Moisture		1	219085	01/08/14 16:35	LWN	TAL CHI

Client Sample ID: B-183 (1.7-3.7)

Lab Sample ID: 500-69634-7

Date Collected: 01/03/14 10:30
Matrix: Solid
Date Received: 01/07/14 10:10
Percent Solids: 84.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			218925	01/03/14 10:30	WRE	TAL CHI
Total/NA	Analysis	8260B		50	219067	01/08/14 23:47	BDA	TAL CHI
Total/NA	Prep	3541			218973	01/08/14 07:03	STW	TAL CHI
Total/NA	Analysis	8082		1	219283	01/10/14 10:51	GMO	TAL CHI
Total/NA	Analysis	Moisture		1	219085	01/08/14 16:35	LWN	TAL CHI

Client Sample ID: B-183 (8-10)

Lab Sample ID: 500-69634-8

Date Collected: 01/03/14 11:15
Matrix: Solid
Date Received: 01/07/14 10:10
Percent Solids: 96.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			218925	01/03/14 11:15	WRE	TAL CHI
Total/NA	Analysis	8260B		50	219067	01/09/14 00:12	BDA	TAL CHI
Total/NA	Prep	3541			218973	01/08/14 07:03	STW	TAL CHI
Total/NA	Analysis	8082		1	219283	01/10/14 11:05	GMO	TAL CHI
Total/NA	Analysis	Moisture		1	219085	01/08/14 16:35	LWN	TAL CHI

Client Sample ID: B-183 (17.3-19.3)

Lab Sample ID: 500-69634-9

Date Collected: 01/03/14 11:20
Matrix: Solid
Date Received: 01/07/14 10:10
Percent Solids: 93.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			218925	01/03/14 11:20	WRE	TAL CHI
Total/NA	Analysis	8260B		50	219067	01/09/14 00:36	BDA	TAL CHI
Total/NA	Prep	3541			218973	01/08/14 07:03	STW	TAL CHI
Total/NA	Analysis	8082		1	219283	01/10/14 11:19	GMO	TAL CHI
Total/NA	Analysis	Moisture		1	219085	01/08/14 16:35	LWN	TAL CHI

Client Sample ID: B-187 (1.3-3.3)

Lab Sample ID: 500-69634-10

Date Collected: 01/03/14 11:40
Matrix: Solid
Date Received: 01/07/14 10:10
Percent Solids: 91.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			218925	01/03/14 11:40	WRE	TAL CHI
Total/NA	Analysis	8260B		50	219067	01/09/14 01:01	BDA	TAL CHI
Total/NA	Prep	3541			218973	01/08/14 07:03	STW	TAL CHI
Total/NA	Analysis	8082		1	219283	01/10/14 11:32	GMO	TAL CHI
Total/NA	Analysis	Moisture		1	219085	01/08/14 16:35	LWN	TAL CHI

Client Sample ID: B-187 (8-10)

Lab Sample ID: 500-69634-11

Date Collected: 01/03/14 12:00
Matrix: Solid
Date Received: 01/07/14 10:10
Percent Solids: 94.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			218925	01/03/14 12:00	WRE	TAL CHI
Total/NA	Analysis	8260B		50	219067	01/09/14 01:26	BDA	TAL CHI
Total/NA	Prep	3541			218973	01/08/14 07:03	STW	TAL CHI
Total/NA	Analysis	8082		1	219283	01/10/14 11:46	GMO	TAL CHI
Total/NA	Analysis	Moisture		1	219085	01/08/14 16:35	LWN	TAL CHI

Client Sample ID: B-187 (12-14)

Lab Sample ID: 500-69634-12

Date Collected: 01/03/14 12:05
Matrix: Solid
Date Received: 01/07/14 10:10
Percent Solids: 94.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			218925	01/03/14 12:05	WRE	TAL CHI
Total/NA	Analysis	8260B		50	219067	01/09/14 01:51	BDA	TAL CHI
Total/NA	Prep	3541			218973	01/08/14 07:03	STW	TAL CHI
Total/NA	Analysis	8082		1	219283	01/10/14 12:01	GMO	TAL CHI
Total/NA	Analysis	Moisture		1	219085	01/08/14 16:35	LWN	TAL CHI

Lab Chronicle

Client: ARCADIS U.S., Inc.
Project/Site: MadisonKipp

TestAmerica Job ID: 500-69634-1

Client Sample ID: B-160 (12-14)

Lab Sample ID: 500-69634-13

Date Collected: 01/03/14 12:50
Matrix: Solid
Date Received: 01/07/14 10:10
Percent Solids: 96.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			218925	01/03/14 12:50	WRE	TAL CHI
Total/NA	Analysis	8260B		50	219067	01/09/14 02:15	BDA	TAL CHI
Total/NA	Prep	3541			218973	01/08/14 07:03	STW	TAL CHI
Total/NA	Analysis	8082		10	219283	01/12/14 07:36	GMO	TAL CHI
Total/NA	Analysis	Moisture		1	219085	01/08/14 16:35	LWN	TAL CHI

Client Sample ID: B-160 (17-19)

Lab Sample ID: 500-69634-14

Date Collected: 01/03/14 12:55
Matrix: Solid
Date Received: 01/07/14 10:10
Percent Solids: 93.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			218925	01/03/14 12:55	WRE	TAL CHI
Total/NA	Analysis	8260B		50	219067	01/09/14 02:41	BDA	TAL CHI
Total/NA	Prep	3541			218973	01/08/14 07:03	STW	TAL CHI
Total/NA	Analysis	8082		1	219283	01/10/14 12:28	GMO	TAL CHI
Total/NA	Analysis	Moisture		1	219085	01/08/14 16:35	LWN	TAL CHI

Client Sample ID: B-179 (2-4)

Lab Sample ID: 500-69634-15

Date Collected: 01/03/14 13:25
Matrix: Solid
Date Received: 01/07/14 10:10
Percent Solids: 83.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			218925	01/03/14 13:25	WRE	TAL CHI
Total/NA	Analysis	8260B		50	219067	01/09/14 03:05	BDA	TAL CHI
Total/NA	Prep	3541			218973	01/08/14 07:03	STW	TAL CHI
Total/NA	Analysis	8082		200	219283	01/10/14 17:36	GMO	TAL CHI
Total/NA	Analysis	Moisture		1	219085	01/08/14 16:35	LWN	TAL CHI

Client Sample ID: B-179 (9-11)

Lab Sample ID: 500-69634-16

Date Collected: 01/03/14 14:00
Matrix: Solid
Date Received: 01/07/14 10:10
Percent Solids: 97.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			218929	01/07/14 15:49	WRE	TAL CHI
Total/NA	Analysis	8260B		50	219067	01/09/14 07:33	BDA	TAL CHI
Total/NA	Prep	3541			218973	01/08/14 07:03	STW	TAL CHI
Total/NA	Analysis	8082		20000	219283	01/12/14 07:50	GMO	TAL CHI
Total/NA	Analysis	Moisture		1	219085	01/08/14 16:35	LWN	TAL CHI

Client Sample ID: B-181 (18.1-20.1)

Lab Sample ID: 500-69634-17

Date Collected: 01/03/14 14:30
Matrix: Solid
Date Received: 01/07/14 10:10
Percent Solids: 96.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			218925	01/03/14 14:30	WRE	TAL CHI
Total/NA	Analysis	8260B		50	219067	01/09/14 07:57	BDA	TAL CHI
Total/NA	Prep	3541			218973	01/08/14 07:03	STW	TAL CHI
Total/NA	Analysis	8082		500	219283	01/12/14 08:04	GMO	TAL CHI
Total/NA	Analysis	Moisture		1	219085	01/08/14 16:35	LWN	TAL CHI

Client Sample ID: B-158 (15-17)

Lab Sample ID: 500-69634-18

Date Collected: 01/03/14 15:15
Matrix: Solid
Date Received: 01/07/14 10:10
Percent Solids: 94.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			218925	01/03/14 15:15	WRE	TAL CHI
Total/NA	Analysis	8260B		50	219067	01/09/14 08:22	BDA	TAL CHI
Total/NA	Prep	3541			218973	01/08/14 07:03	STW	TAL CHI
Total/NA	Analysis	8082		5000	219283	01/10/14 18:18	GMO	TAL CHI
Total/NA	Analysis	Moisture		1	219085	01/08/14 16:35	LWN	TAL CHI

Client Sample ID: B-179 (21.1-23.1)

Lab Sample ID: 500-69634-19

Date Collected: 01/04/14 08:20
Matrix: Solid
Date Received: 01/07/14 10:10
Percent Solids: 91.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			218929	01/04/14 08:20	WRE	TAL CHI
Total/NA	Analysis	8260B		50	219067	01/09/14 08:47	BDA	TAL CHI
Total/NA	Prep	3541			218973	01/08/14 07:03	STW	TAL CHI
Total/NA	Analysis	8082		1	219283	01/10/14 13:38	GMO	TAL CHI
Total/NA	Analysis	Moisture		1	219085	01/08/14 16:35	LWN	TAL CHI

Client Sample ID: B-179 (4-6)

Lab Sample ID: 500-69634-20

Date Collected: 01/03/14 13:50
Matrix: Solid
Date Received: 01/07/14 10:10
Percent Solids: 83.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			218929	01/03/14 13:50	WRE	TAL CHI
Total/NA	Analysis	8260B		50	219125	01/09/14 14:46	BDA	TAL CHI
Total/NA	Prep	3541			218973	01/08/14 07:03	STW	TAL CHI
Total/NA	Analysis	8082		10000	219283	01/12/14 08:18	GMO	TAL CHI
Total/NA	Analysis	Moisture		1	219085	01/08/14 16:35	LWN	TAL CHI

Lab Chronicle

Client: ARCADIS U.S., Inc.
Project/Site: MadisonKipp

TestAmerica Job ID: 500-69634-1

Client Sample ID: B-191 (2-4)

Lab Sample ID: 500-69634-21

Date Collected: 01/04/14 10:20
Matrix: Solid
Date Received: 01/07/14 10:10
Percent Solids: 87.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			218929	01/04/14 10:20	WRE	TAL CHI
Total/NA	Analysis	8260B		50	219125	01/09/14 15:11	BDA	TAL CHI
Total/NA	Prep	3541			218974	01/08/14 07:19	STW	TAL CHI
Total/NA	Analysis	8082		50	219283	01/10/14 19:00	GMO	TAL CHI
Total/NA	Analysis	Moisture		1	219085	01/08/14 16:35	LWN	TAL CHI

Client Sample ID: B-191 (13.7-15.7)

Lab Sample ID: 500-69634-22

Date Collected: 01/04/14 10:40
Matrix: Solid
Date Received: 01/07/14 10:10
Percent Solids: 94.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			218929	01/04/14 10:40	WRE	TAL CHI
Total/NA	Analysis	8260B		50	219125	01/09/14 15:35	BDA	TAL CHI
Total/NA	Prep	3541			218974	01/08/14 07:19	STW	TAL CHI
Total/NA	Analysis	8082		1	219283	01/10/14 15:30	GMO	TAL CHI
Total/NA	Analysis	Moisture		1	219085	01/08/14 16:35	LWN	TAL CHI

Client Sample ID: B-191 (17.3-19.3)

Lab Sample ID: 500-69634-23

Date Collected: 01/04/14 10:45
Matrix: Solid
Date Received: 01/07/14 10:10
Percent Solids: 93.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			218929	01/04/14 10:45	WRE	TAL CHI
Total/NA	Analysis	8260B		50	219125	01/09/14 16:00	BDA	TAL CHI
Total/NA	Prep	3541			218974	01/08/14 07:19	STW	TAL CHI
Total/NA	Analysis	8082		1	219283	01/10/14 15:44	GMO	TAL CHI
Total/NA	Analysis	Moisture		1	219085	01/08/14 16:35	LWN	TAL CHI

Client Sample ID: Trip Blank

Lab Sample ID: 500-69634-24

Date Collected: 01/03/14 00:00
Matrix: Solid
Date Received: 01/07/14 10:10
Percent Solids: 100.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			218929	01/04/14 12:00	WRE	TAL CHI
Total/NA	Analysis	8260B		50	219125	01/09/14 16:25	BDA	TAL CHI
Total/NA	Analysis	Moisture		1	219085	01/09/14 09:43	LWN	TAL CHI

Laboratory References:

TAL CHI = TestAmerica Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Certification Summary

Client: ARCADIS U.S., Inc.
Project/Site: MadisonKipp

TestAmerica Job ID: 500-69634-1

Laboratory: TestAmerica Chicago

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Alabama	State Program	4	40461	04-30-14
California	NELAP	9	01132CA	04-30-14
Georgia	State Program	4	N/A	04-30-14
Hawaii	State Program	9	N/A	04-30-14
Illinois	NELAP	5	100201	04-30-14
Indiana	State Program	5	C-IL-02	04-30-14
Iowa	State Program	7	82	05-01-14
Kansas	NELAP	7	E-10161	10-31-14
Kentucky (UST)	State Program	4	66	04-30-14
Louisiana	NELAP	6	30720	06-30-14
Massachusetts	State Program	1	M-IL035	06-30-14
Mississippi	State Program	4	N/A	04-30-14
North Carolina DENR	State Program	4	291	12-31-14
North Dakota	State Program	8	R-194	04-30-14
Oklahoma	State Program	6	8908	08-31-14
South Carolina	State Program	4	77001	04-30-14
Texas	NELAP	6	T104704252-09-TX	02-28-14
USDA	Federal		P330-12-00038	02-06-15
Wisconsin	State Program	5	999580010	08-31-14
Wyoming	State Program	8	8TMS-Q	04-30-14

TestAmerica

THE LEADER IN ENVIRONMENTA

2417 Bond Street, University Park, IL 6
Phone: 708.534.5200 Fax: 708.53

500-69634 COC

(optional)

Report To
Contact: Tori Schoen
Company: ARCADIS
Address: 126 N. Jefferson #400
Address: Milwaukee, WI 53202
Phone: 414-276-7742
Fax: 414-276-7603
E-Mail: Tori.Schoen@arcadis-us.com

(optional)

Bill To
Contact:
Company:
Address:
Address:
Phone:
Fax:
PO#/Reference#

Chain of Custody Record

Lab Job #: 500-69634

Chain of Custody Number:

Page 1 of 3

Temperature °C of Cooler: 1.4

Client: ARCADIS
Client Project #:
Project Name: Madison-Kipp
Project Location/State: Madison, WI
Lab Project #:
Sampler: Bryan Ernst, Jay Reid
Lab PM:

Preservative Key
1. HCL, Cool to 4°
2. H2SO4, Cool to 4°
3. HNO3, Cool to 4°
4. NaOH, Cool to 4°
5. NaOH/Zn, Cool to 4°
6. NaHSO4
7. Cool to 4°
8. None
9. Other

Lab ID	MS/MSD	Sample ID	Sampling Date	Sampling Time	# of Containers	Matrix	Preservative	Parameter: PCBs	Parameter: VOCs+Dry Wt.	Comments
							NONE		MeOH	
1		B-186 (2-4)	1/3/14	0750	3	S		X	X	
2		B-185 (1.5-3.5)		0820	3	S		X	X	
3		B-184 (2-4)		0845	3	S		X	X	
4		B-184 (14-16)		1010	3	S		X	X	
5		B-184 (18.5-20.5)		1020	3	S		X	X	
6		B-177 (2-4)		0945	3	S		X	X	
7		B-183 (1.7-3.7)		1030	3	S		X	X	
8		B-183 (8-10)		1115	3	S		X	X	
9		B-183 (17.3-19.3)		1120	3	S		X	X	
10		B-187 (1.3-3.3)		1140	3	S		X	X	

Turnaround Time Required (Business Days)
___ 1 Day ___ 2 Days ___ 5 Days X 7 Days ___ 10 Days ___ 15 Days _____ Other
Requested Due Date: Standard

Sample Disposal
☐ Return to Client ☐ Disposal by Lab ☐ Archive for _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Relinquished By	Company	Date	Time	Received By	Company	Date	Time
Bryan Ernst	ARCADIS	1/3/14	1800		AUS	1/3/14	1800
	AUS	1/7/14	1010		TA-CRL	1/7/14	1010

Lab Courier:
Shipped:
Hand Delivered: X

Matrix Key
WW – Wastewater
W – Water
S – Soil
SL – Sludge
MS – Miscellaneous
OL – Oil
A – Air
SE – Sediment
SO – Soil
L – Leachate
WI – Wipe
DW – Drinking Water
O – Other

Client Comments:

Lab Comments:

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

2417 Bond Street, University Park, IL 60484
Phone: 708.534.5200 Fax: 708.534.5211

(optional)

Report To
Contact: Toni Schoen
Company: ARCADIS
Address: 126 N. Jefferson #400
Address: Milwaukee, WI 53202
Phone: 414-276-7742
Fax: 414-276-7603
E-Mail: Toni.Schoen@arcadis-us.com

(optional)

Bill To
Contact:
Company:
Address:
Address:
Phone:
Fax:
PO#/Reference#

Chain of Custody Record

2/

Lab Job #: 500-69634

Chain of Custody Number:

Page 2 of 3

Temperature °C of Cooler: 1.4

Client: ARCADIS
Client Project #:
Project Name: Madison-Kipp
Project Location/State: Madison, WI
Lab Project #:
Sampler: Bryan Ernst, Jay Reed
Lab PM:

Preservative: NONE; MeOH
Parameter: PCBs; VOCs + Dry Wt.

Preservative Key
1. HCL, Cool to 4°
2. H2SO4, Cool to 4°
3. HNO3, Cool to 4°
4. NaOH, Cool to 4°
5. NaOH/Zn, Cool to 4°
6. NaHSO4
7. Cool to 4°
8. None
9. Other

Lab ID	MS/MSD	Sample ID	Sampling Date	Sampling Time	# of Containers	Matrix	PCBs	VOCs + Dry Wt.	Comments
11		B-187 (8-10)	1/3/14	1200	3	S	X	X	
12		B-187 (12-14)		1205	3	S	X	X	
13		B-160 (12-14)		1250	3	S	X	X	
14		B-160 (17-19)		1255	3	S	X	X	
15		B-179 (2-4)		1325	3	S	X	X	
16		B-179 (9-11)		1400	3	S	X	X	
17		B-181 (18.1-20.1)		1430	3	S	X	X	
18		B-158 (15-17)		1515	3	S	X	X	
19		B-179 (21.1-23.1)	1/4/14	0820	3	S	X	X	
20		B-179 (4-6)	1/3/14	1350	3	S	X	X	Added by TA

Turnaround Time Required (Business Days)
___ 1 Day ___ 2 Days ___ 5 Days X 7 Days ___ 10 Days ___ 15 Days _____ Other
Requested Due Date: Standard

Sample Disposal
☐ Return to Client ☐ Disposal by Lab ☐ Archive for _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Relinquished By	Company	Date	Time	Received By	Company	Date	Time
Bryan Ernst	ARCADIS	1/3/14	1800		AUS	1/3/14	1800
	AUS	1/7/14	1010	Sheri Scott	TA-CHI	1/7/14	1010

Lab Courier
Shipped
Hand Delivered

Matrix Key
WW – Wastewater
W – Water
S – Soil
SL – Sludge
MS – Miscellaneous
OL – Oil
A – Air
SE – Sediment
SO – Soil
L – Leachate
WI – Wipe
DW – Drinking Water
O – Other

Client Comments

Lab Comments:

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

2417 Bond Street, University Park, IL 60484
Phone: 708.534.5200 Fax: 708.534.5211

(optional)

Report To
Contact: Toni Schoen
Company: ARCADIS
Address: 126 N. Jefferson #400
Address: Milwaukee WI 53202
Phone: 414-276-7742
Fax: 414-276-7603
E-Mail: toni.schoen@arcadis-us.com

(optional)

Bill To
Contact:
Company:
Address:
Address:
Phone:
Fax:
PO#/Reference#

Chain of Custody Record

Lab Job #: 500-69634

Chain of Custody Number:

Page 3 of 3

Temperature °C of Cooler: 1.4

Client: ARCADIS | Client Project #:
Project Name: Madison Kipp
Project Location/State: Madison, WI | Lab Project #:
Sampler: Jay Reed | Lab PM:

Lab ID	MS/MSD	Sample ID	Sampling Date	Sampling Time	# of Containers	Matrix	Preservative: None	Preservative: MeOH	Parameter: PCBs	Parameter: VOCs + dry weight	Comments
21		B-191 (2-4)	1/4/14	10:20	3	S			X	X	
22		B-191 (13.7-15.7)		10:40	3	S			X	X	
23		B-191 (17.3-19.3)		10:45	3	S			X	X	
24		Trip Blank			1	W				X	

Preservative Key
1. HCL, Cool to 4°
2. H2SO4, Cool to 4°
3. HNO3, Cool to 4°
4. NaOH, Cool to 4°
5. NaOH/Zn, Cool to 4°
6. NaHSO4
7. Cool to 4°
8. None
9. Other

Turnaround Time Required (Business Days)
___ 1 Day ___ 2 Days ___ 5 Days ___ 7 Days ___ 10 Days ___ 15 Days _____ Other
Requested Due Date: Standard

Sample Disposal
☐ Return to Client ☐ Disposal by Lab ☐ Archive for _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Relinquished By	Company	Date	Time	Received By	Company	Date	Time
[signature]	ACS	1/7/14	1010	[signature]	TA-CHI	1/7/14	1010
Relinquished By	Company	Date	Time	Received By	Company	Date	Time
Relinquished By	Company	Date	Time	Received By	Company	Date	Time

Lab Courier:
Shipped:
Hand Delivered: X

Matrix Key
WW – Wastewater
W – Water
S – Soil
SL – Sludge
MS – Miscellaneous
OL – Oil
A – Air
SE – Sediment
SO – Soil
L – Leachate
WI – Wipe
DW – Drinking Water
O – Other

Client Comments:

Lab Comments:

Login Sample Receipt Checklist

Client: ARCADIS U.S., Inc.

Job Number: 500-69634-1

Login Number: 69634

List Source: TestAmerica Chicago

List Number: 1

Creator: Scott, Sherri L

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	1.4
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	False	Refer to Job Narrative for details.
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Chicago
2417 Bond Street
University Park, IL 60484
Tel: (708)534-5200

TestAmerica Job ID: 500-70141-1
Client Project/Site: MadisonKipp WI001368.0012.00001

For:
ARCADIS U.S., Inc.
126 North Jefferson Street
Suite 400
Milwaukee, Wisconsin 53202

Attn: Ms. Toni Schoen

Authorized for release by:
1/22/2014 2:31:09 PM
Eric Lang, Manager of Project Management
(708)534-5200
eric.lang@testamericainc.com

Designee for

Sandie Fredrick, Project Manager II
(920)261-1660
sandie.fredrick@testamericainc.com

Table of Contents

Job ID: 500-70141-1

Laboratory: TestAmerica Chicago

Narrative

Job Narrative
500-70141-1

Comments
No additional comments.

Receipt
The samples were received on 1/16/2014 10:20 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 4.3º C.

GC/MS VOA
Method(s) 8260B: The following sample was diluted to bring the concentration of target analytes within the calibration range: B-190 (0-2) (500-70141-6). Elevated reporting limits (RLs) are provided.

No other analytical or quality issues were noted.

GC VOA
Method(s) 5035: xtract vial has < 8 grams of soil in 10 ml methanol. B-136 (10-12) (500-70141-2), B-136 (4-6) (500-70141-1), B-189 (16-18) (500-70141-4), B-189 (2-4) (500-70141-3), B-189 (8-10) (500-70141-5), B-190 (0-2) (500-70141-6), B-190 (10-12) (500-70141-7), B-190 (16-18) (500-70141-8), B-192 (0-2) (500-70141-9), B-192 (10-12) (500-70141-11), B-192 (16-18) (500-70141-10).

No other analytical or quality issues were noted.

GC Semi VOA
Method(s) 8082: The following sample were diluted to bring the concentration of target analytes within the calibration range: B-136 (10-12) (500-70141-2), B-136 (4-6) (500-70141-1), B-192 (0-2) (500-70141-9). Elevated reporting limits (RLs) are provided.

Method(s) 8082: The following samples required a dilution due to the nature of the sample matrix: B-136 (10-12) (500-70141-2), B-136 (4-6) (500-70141-1), B-192 (0-2) (500-70141-9). Because of this dilution, the surrogate spike concentrations in the samples were reduced to a level where the recovery calculation does not provide useful information.

Method(s) 8082: TCX recovery for the following sample was outside control limits: B-190 (0-2) (500-70141-6). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

No other analytical or quality issues were noted.

Metals
No analytical or quality issues were noted.

Organic Prep
No analytical or quality issues were noted.

Detection Summary

Client: ARCADIS U.S., Inc.
Project/Site: MadisonKipp WI001368.0012.00001

TestAmerica Job ID: 500-70141-1

Client Sample ID: B-136 (4-6) — Lab Sample ID: 500-70141-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2,4-Trimethylbenzene	94	J	220	23	ug/Kg	50	☼	8260B	Total/NA
Tetrachloroethene	140		110	18	ug/Kg	50	☼	8260B	Total/NA
Trichloroethene	29	J	55	21	ug/Kg	50	☼	8260B	Total/NA
PCB-1242	12000		1000	330	ug/Kg	50	☼	8082	Total/NA

Client Sample ID: B-136 (10-12) — Lab Sample ID: 500-70141-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2,4-Trimethylbenzene	670		270	28	ug/Kg	50	☼	8260B	Total/NA
1,3,5-Trimethylbenzene	220	J	270	28	ug/Kg	50	☼	8260B	Total/NA
n-Butylbenzene	180		130	17	ug/Kg	50	☼	8260B	Total/NA
N-Propylbenzene	71	J	270	24	ug/Kg	50	☼	8260B	Total/NA
p-Isopropyltoluene	120	J	270	25	ug/Kg	50	☼	8260B	Total/NA
sec-Butylbenzene	81	J	130	21	ug/Kg	50	☼	8260B	Total/NA
Tetrachloroethene	160		130	22	ug/Kg	50	☼	8260B	Total/NA
PCB-1242	11000		870	290	ug/Kg	50	☼	8082	Total/NA

Client Sample ID: B-189 (2-4) — Lab Sample ID: 500-70141-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	350		130	21	ug/Kg	50	☼	8260B	Total/NA

Client Sample ID: B-189 (16-18) — Lab Sample ID: 500-70141-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1242	14	J	17	5.7	ug/Kg	1	☼	8082	Total/NA

Client Sample ID: B-189 (8-10) — Lab Sample ID: 500-70141-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1242	8.8	J	17	5.7	ug/Kg	1	☼	8082	Total/NA

Client Sample ID: B-190 (0-2) — Lab Sample ID: 500-70141-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2,4-Trimethylbenzene	14000		3600	380	ug/Kg	500	☼	8260B	Total/NA
1,3,5-Trimethylbenzene	5000		3600	370	ug/Kg	500	☼	8260B	Total/NA
cis-1,2-Dichloroethene	120000		1800	220	ug/Kg	500	☼	8260B	Total/NA
Ethylbenzene	600		450	220	ug/Kg	500	☼	8260B	Total/NA
Isopropylbenzene	1400	J	3600	450	ug/Kg	500	☼	8260B	Total/NA
Naphthalene	2100	J	3600	880	ug/Kg	500	☼	8260B	Total/NA
n-Butylbenzene	4600		1800	230	ug/Kg	500	☼	8260B	Total/NA
N-Propylbenzene	3900		3600	310	ug/Kg	500	☼	8260B	Total/NA
p-Isopropyltoluene	2800	J	3600	330	ug/Kg	500	☼	8260B	Total/NA
sec-Butylbenzene	2600		1800	270	ug/Kg	500	☼	8260B	Total/NA
trans-1,2-Dichloroethene	4700		1800	450	ug/Kg	500	☼	8260B	Total/NA
Trichloroethene	150000		890	330	ug/Kg	500	☼	8260B	Total/NA
Xylenes, Total	2800		890	120	ug/Kg	500	☼	8260B	Total/NA
Tetrachloroethene - DL	2400000		18000	3000	ug/Kg	5000	☼	8260B	Total/NA
PCB-1242	300		20	6.4	ug/Kg	1	☼	8082	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: ARCADIS U.S., Inc.
Project/Site: MadisonKipp WI001368.0012.00001

TestAmerica Job ID: 500-70141-1

Client Sample ID: B-190 (10-12) — Lab Sample ID: 500-70141-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	1400		160	27	ug/Kg	50	☼	8260B	Total/NA
Trichloroethene	41	J	81	30	ug/Kg	50	☼	8260B	Total/NA

Client Sample ID: B-190 (16-18) — Lab Sample ID: 500-70141-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	400		140	24	ug/Kg	50	☼	8260B	Total/NA

Client Sample ID: B-192 (0-2) — Lab Sample ID: 500-70141-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	220		160	26	ug/Kg	50	☼	8260B	Total/NA
PCB-1242	35000		4000	1300	ug/Kg	200	☼	8082	Total/NA

Client Sample ID: B-192 (16-18) — Lab Sample ID: 500-70141-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	1200		160	26	ug/Kg	50	☼	8260B	Total/NA

Client Sample ID: B-192 (10-12) — Lab Sample ID: 500-70141-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	200		180	30	ug/Kg	50	☼	8260B	Total/NA
PCB-1242	15	J	17	5.7	ug/Kg	1	☼	8082	Total/NA

This Detection Summary does not include radiochemical test results.

Method Summary

Client: ARCADIS U.S., Inc.
Project/Site: MadisonKipp WI001368.0012.00001

TestAmerica Job ID: 500-70141-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL CHI
8082	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL CHI
Moisture	Percent Moisture	EPA	TAL CHI

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL CHI = TestAmerica Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Sample Summary

Client: ARCADIS U.S., Inc.
Project/Site: MadisonKipp WI001368.0012.00001

TestAmerica Job ID: 500-70141-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-70141-1	B-136 (4-6)	Solid	01/15/14 15:55	01/16/14 10:20
500-70141-2	B-136 (10-12)	Solid	01/15/14 16:00	01/16/14 10:20
500-70141-3	B-189 (2-4)	Solid	01/15/14 16:05	01/16/14 10:20
500-70141-4	B-189 (16-18)	Solid	01/15/14 16:10	01/16/14 10:20
500-70141-5	B-189 (8-10)	Solid	01/15/14 16:15	01/16/14 10:20
500-70141-6	B-190 (0-2)	Solid	01/15/14 16:20	01/16/14 10:20
500-70141-7	B-190 (10-12)	Solid	01/15/14 16:25	01/16/14 10:20
500-70141-8	B-190 (16-18)	Solid	01/15/14 16:30	01/16/14 10:20
500-70141-9	B-192 (0-2)	Solid	01/15/14 16:35	01/16/14 10:20
500-70141-10	B-192 (16-18)	Solid	01/15/14 16:40	01/16/14 10:20
500-70141-11	B-192 (10-12)	Solid	01/15/14 16:45	01/16/14 10:20

Client: ARCADIS U.S., Inc.
Project/Site: MadisonKipp WI001368.0012.00001

TestAmerica Job ID: 500-70141-1

Client Sample ID: B-136 (4-6)
Date Collected: 01/15/14 15:55
Date Received: 01/16/14 10:20

Lab Sample ID: 500-70141-1
Matrix: Solid
Percent Solids: 83.1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<38		220	38	ug/Kg	☼	01/15/14 15:55	01/21/14 03:07	50
1,1,1-Trichloroethane	<22		110	22	ug/Kg	☼	01/15/14 15:55	01/21/14 03:07	50
1,1,2,2-Tetrachloroethane	<26		110	26	ug/Kg	☼	01/15/14 15:55	01/21/14 03:07	50
1,1,2-Trichloroethane	<31		110	31	ug/Kg	☼	01/15/14 15:55	01/21/14 03:07	50
1,1-Dichloroethane	<20		110	20	ug/Kg	☼	01/15/14 15:55	01/21/14 03:07	50
1,1-Dichloroethene	<34		110	34	ug/Kg	☼	01/15/14 15:55	01/21/14 03:07	50
1,1-Dichloropropene	<38		110	38	ug/Kg	☼	01/15/14 15:55	01/21/14 03:07	50
1,2,3-Trichlorobenzene	<39		220	39	ug/Kg	☼	01/15/14 15:55	01/21/14 03:07	50
1,2,3-Trichloropropane	<64		220	64	ug/Kg	☼	01/15/14 15:55	01/21/14 03:07	50
1,2,4-Trichlorobenzene	<42		220	42	ug/Kg	☼	01/15/14 15:55	01/21/14 03:07	50
1,2,4-Trimethylbenzene	**94**	**J**	220	23	ug/Kg	☼	01/15/14 15:55	01/21/14 03:07	50
1,2-Dibromo-3-Chloropropane	<96		220	96	ug/Kg	☼	01/15/14 15:55	01/21/14 03:07	50
1,2-Dibromoethane	<35		220	35	ug/Kg	☼	01/15/14 15:55	01/21/14 03:07	50
1,2-Dichlorobenzene	<23		220	23	ug/Kg	☼	01/15/14 15:55	01/21/14 03:07	50
1,2-Dichloroethane	<32		110	32	ug/Kg	☼	01/15/14 15:55	01/21/14 03:07	50
1,2-Dichloropropane	<22		110	22	ug/Kg	☼	01/15/14 15:55	01/21/14 03:07	50
1,3,5-Trimethylbenzene	<23		220	23	ug/Kg	☼	01/15/14 15:55	01/21/14 03:07	50
1,3-Dichlorobenzene	<28		220	28	ug/Kg	☼	01/15/14 15:55	01/21/14 03:07	50
1,3-Dichloropropane	<15		110	15	ug/Kg	☼	01/15/14 15:55	01/21/14 03:07	50
1,4-Dichlorobenzene	<19		220	19	ug/Kg	☼	01/15/14 15:55	01/21/14 03:07	50
2,2-Dichloropropane	<35		110	35	ug/Kg	☼	01/15/14 15:55	01/21/14 03:07	50
2-Chlorotoluene	<23		110	23	ug/Kg	☼	01/15/14 15:55	01/21/14 03:07	50
4-Chlorotoluene	<22		110	22	ug/Kg	☼	01/15/14 15:55	01/21/14 03:07	50
Benzene	<8.2		28	8.2	ug/Kg	☼	01/15/14 15:55	01/21/14 03:07	50
Bromobenzene	<47		220	47	ug/Kg	☼	01/15/14 15:55	01/21/14 03:07	50
Bromochloromethane	<42		220	42	ug/Kg	☼	01/15/14 15:55	01/21/14 03:07	50
Bromodichloromethane	<37		220	37	ug/Kg	☼	01/15/14 15:55	01/21/14 03:07	50
Bromoform	<49		220	49	ug/Kg	☼	01/15/14 15:55	01/21/14 03:07	50
Bromomethane	<75		220	75	ug/Kg	☼	01/15/14 15:55	01/21/14 03:07	50
Carbon tetrachloride	<28		110	28	ug/Kg	☼	01/15/14 15:55	01/21/14 03:07	50
Chlorobenzene	<16		110	16	ug/Kg	☼	01/15/14 15:55	01/21/14 03:07	50
Chloroethane	<48		220	48	ug/Kg	☼	01/15/14 15:55	01/21/14 03:07	50
Chloroform	<23		110	23	ug/Kg	☼	01/15/14 15:55	01/21/14 03:07	50
Chloromethane	<51		220	51	ug/Kg	☼	01/15/14 15:55	01/21/14 03:07	50
cis-1,2-Dichloroethene	<14		110	14	ug/Kg	☼	01/15/14 15:55	01/21/14 03:07	50
cis-1,3-Dichloropropene	<20		110	20	ug/Kg	☼	01/15/14 15:55	01/21/14 03:07	50
Dibromochloromethane	<38		220	38	ug/Kg	☼	01/15/14 15:55	01/21/14 03:07	50
Dibromomethane	<53		220	53	ug/Kg	☼	01/15/14 15:55	01/21/14 03:07	50
Dichlorodifluoromethane	<57		220	57	ug/Kg	☼	01/15/14 15:55	01/21/14 03:07	50
Ethylbenzene	<14		28	14	ug/Kg	☼	01/15/14 15:55	01/21/14 03:07	50
Hexachlorobutadiene	<38		220	38	ug/Kg	☼	01/15/14 15:55	01/21/14 03:07	50
Isopropyl ether	<16		220	16	ug/Kg	☼	01/15/14 15:55	01/21/14 03:07	50
Isopropylbenzene	<28		220	28	ug/Kg	☼	01/15/14 15:55	01/21/14 03:07	50
Methyl tert-butyl ether	<48		220	48	ug/Kg	☼	01/15/14 15:55	01/21/14 03:07	50
Methylene Chloride	<76		550	76	ug/Kg	☼	01/15/14 15:55	01/21/14 03:07	50
Naphthalene	<55		220	55	ug/Kg	☼	01/15/14 15:55	01/21/14 03:07	50
n-Butylbenzene	<14		110	14	ug/Kg	☼	01/15/14 15:55	01/21/14 03:07	50
N-Propylbenzene	<19		220	19	ug/Kg	☼	01/15/14 15:55	01/21/14 03:07	50
p-Isopropyltoluene	<20		220	20	ug/Kg	☼	01/15/14 15:55	01/21/14 03:07	50

Client Sample ID: B-136 (4-6)

Lab Sample ID: 500-70141-1

Date Collected: 01/15/14 15:55
Matrix: Solid
Date Received: 01/16/14 10:20
Percent Solids: 83.1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	<17		110	17	ug/Kg	☼	01/15/14 15:55	01/21/14 03:07	50
Styrene	<11		110	11	ug/Kg	☼	01/15/14 15:55	01/21/14 03:07	50
tert-Butylbenzene	<15		110	15	ug/Kg	☼	01/15/14 15:55	01/21/14 03:07	50
Tetrachloroethene	**140**		110	18	ug/Kg	☼	01/15/14 15:55	01/21/14 03:07	50
Toluene	<13		28	13	ug/Kg	☼	01/15/14 15:55	01/21/14 03:07	50
trans-1,2-Dichloroethene	<28		110	28	ug/Kg	☼	01/15/14 15:55	01/21/14 03:07	50
trans-1,3-Dichloropropene	<23		110	23	ug/Kg	☼	01/15/14 15:55	01/21/14 03:07	50
Trichloroethene	**29**	**J**	55	21	ug/Kg	☼	01/15/14 15:55	01/21/14 03:07	50
Trichlorofluoromethane	<46		220	46	ug/Kg	☼	01/15/14 15:55	01/21/14 03:07	50
Vinyl chloride	<12		28	12	ug/Kg	☼	01/15/14 15:55	01/21/14 03:07	50
Xylenes, Total	<7.6		55	7.6	ug/Kg	☼	01/15/14 15:55	01/21/14 03:07	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*94*		*75 - 125*	*01/15/14 15:55*	*01/21/14 03:07*	*50*
4-Bromofluorobenzene (Surr)	*108*		*75 - 120*	*01/15/14 15:55*	*01/21/14 03:07*	*50*
Dibromofluoromethane	*104*		*75 - 120*	*01/15/14 15:55*	*01/21/14 03:07*	*50*
Toluene-d8 (Surr)	*106*		*75 - 120*	*01/15/14 15:55*	*01/21/14 03:07*	*50*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<350		1000	350	ug/Kg	☼	01/17/14 07:08	01/22/14 09:11	50
PCB-1221	<440		1000	440	ug/Kg	☼	01/17/14 07:08	01/22/14 09:11	50
PCB-1232	<440		1000	440	ug/Kg	☼	01/17/14 07:08	01/22/14 09:11	50
PCB-1242	**12000**		1000	330	ug/Kg	☼	01/17/14 07:08	01/22/14 09:11	50
PCB-1248	<400		1000	400	ug/Kg	☼	01/17/14 07:08	01/22/14 09:11	50
PCB-1254	<220		1000	220	ug/Kg	☼	01/17/14 07:08	01/22/14 09:11	50
PCB-1260	<490		1000	490	ug/Kg	☼	01/17/14 07:08	01/22/14 09:11	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*0*	*D*	*50 - 116*	*01/17/14 07:08*	*01/22/14 09:11*	*50*
DCB Decachlorobiphenyl	*0*	*D*	*48 - 142*	*01/17/14 07:08*	*01/22/14 09:11*	*50*

Client Sample ID: B-136 (10-12)

Lab Sample ID: 500-70141-2

Date Collected: 01/15/14 16:00
Matrix: Solid
Date Received: 01/16/14 10:20
Percent Solids: 94.3

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<47		270	47	ug/Kg	☼	01/15/14 16:00	01/21/14 03:32	50
1,1,1-Trichloroethane	<27		130	27	ug/Kg	☼	01/15/14 16:00	01/21/14 03:32	50
1,1,2,2-Tetrachloroethane	<31		130	31	ug/Kg	☼	01/15/14 16:00	01/21/14 03:32	50
1,1,2-Trichloroethane	<38		130	38	ug/Kg	☼	01/15/14 16:00	01/21/14 03:32	50
1,1-Dichloroethane	<25		130	25	ug/Kg	☼	01/15/14 16:00	01/21/14 03:32	50
1,1-Dichloroethene	<41		130	41	ug/Kg	☼	01/15/14 16:00	01/21/14 03:32	50
1,1-Dichloropropene	<46		130	46	ug/Kg	☼	01/15/14 16:00	01/21/14 03:32	50
1,2,3-Trichlorobenzene	<47		270	47	ug/Kg	☼	01/15/14 16:00	01/21/14 03:32	50
1,2,3-Trichloropropane	<77		270	77	ug/Kg	☼	01/15/14 16:00	01/21/14 03:32	50
1,2,4-Trichlorobenzene	<51		270	51	ug/Kg	☼	01/15/14 16:00	01/21/14 03:32	50
1,2,4-Trimethylbenzene	**670**		270	28	ug/Kg	☼	01/15/14 16:00	01/21/14 03:32	50
1,2-Dibromo-3-Chloropropane	<120		270	120	ug/Kg	☼	01/15/14 16:00	01/21/14 03:32	50

Client: ARCADIS U.S., Inc.
Project/Site: MadisonKipp WI001368.0012.00001

TestAmerica Job ID: 500-70141-1

Client Sample ID: B-136 (10-12)
Date Collected: 01/15/14 16:00
Date Received: 01/16/14 10:20

Lab Sample ID: 500-70141-2
Matrix: Solid
Percent Solids: 94.3

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane	<42		270	42	ug/Kg	☼	01/15/14 16:00	01/21/14 03:32	50
1,2-Dichlorobenzene	<28		270	28	ug/Kg	☼	01/15/14 16:00	01/21/14 03:32	50
1,2-Dichloroethane	<38		130	38	ug/Kg	☼	01/15/14 16:00	01/21/14 03:32	50
1,2-Dichloropropane	<26		130	26	ug/Kg	☼	01/15/14 16:00	01/21/14 03:32	50
1,3,5-Trimethylbenzene	**220**	**J**	270	28	ug/Kg	☼	01/15/14 16:00	01/21/14 03:32	50
1,3-Dichlorobenzene	<35		270	35	ug/Kg	☼	01/15/14 16:00	01/21/14 03:32	50
1,3-Dichloropropane	<18		130	18	ug/Kg	☼	01/15/14 16:00	01/21/14 03:32	50
1,4-Dichlorobenzene	<23		270	23	ug/Kg	☼	01/15/14 16:00	01/21/14 03:32	50
2,2-Dichloropropane	<43		130	43	ug/Kg	☼	01/15/14 16:00	01/21/14 03:32	50
2-Chlorotoluene	<28		130	28	ug/Kg	☼	01/15/14 16:00	01/21/14 03:32	50
4-Chlorotoluene	<27		130	27	ug/Kg	☼	01/15/14 16:00	01/21/14 03:32	50
Benzene	<10		34	10	ug/Kg	☼	01/15/14 16:00	01/21/14 03:32	50
Bromobenzene	<57		270	57	ug/Kg	☼	01/15/14 16:00	01/21/14 03:32	50
Bromochloromethane	<51		270	51	ug/Kg	☼	01/15/14 16:00	01/21/14 03:32	50
Bromodichloromethane	<45		270	45	ug/Kg	☼	01/15/14 16:00	01/21/14 03:32	50
Bromoform	<59		270	59	ug/Kg	☼	01/15/14 16:00	01/21/14 03:32	50
Bromomethane	<92		270	92	ug/Kg	☼	01/15/14 16:00	01/21/14 03:32	50
Carbon tetrachloride	<35		130	35	ug/Kg	☼	01/15/14 16:00	01/21/14 03:32	50
Chlorobenzene	<19		130	19	ug/Kg	☼	01/15/14 16:00	01/21/14 03:32	50
Chloroethane	<59		270	59	ug/Kg	☼	01/15/14 16:00	01/21/14 03:32	50
Chloroform	<28		130	28	ug/Kg	☼	01/15/14 16:00	01/21/14 03:32	50
Chloromethane	<62		270	62	ug/Kg	☼	01/15/14 16:00	01/21/14 03:32	50
cis-1,2-Dichloroethene	<17		130	17	ug/Kg	☼	01/15/14 16:00	01/21/14 03:32	50
cis-1,3-Dichloropropene	<24		130	24	ug/Kg	☼	01/15/14 16:00	01/21/14 03:32	50
Dibromochloromethane	<47		270	47	ug/Kg	☼	01/15/14 16:00	01/21/14 03:32	50
Dibromomethane	<65		270	65	ug/Kg	☼	01/15/14 16:00	01/21/14 03:32	50
Dichlorodifluoromethane	<69		270	69	ug/Kg	☼	01/15/14 16:00	01/21/14 03:32	50
Ethylbenzene	<17		34	17	ug/Kg	☼	01/15/14 16:00	01/21/14 03:32	50
Hexachlorobutadiene	<47		270	47	ug/Kg	☼	01/15/14 16:00	01/21/14 03:32	50
Isopropyl ether	<20		270	20	ug/Kg	☼	01/15/14 16:00	01/21/14 03:32	50
Isopropylbenzene	<34		270	34	ug/Kg	☼	01/15/14 16:00	01/21/14 03:32	50
Methyl tert-butyl ether	<58		270	58	ug/Kg	☼	01/15/14 16:00	01/21/14 03:32	50
Methylene Chloride	<92		670	92	ug/Kg	☼	01/15/14 16:00	01/21/14 03:32	50
Naphthalene	<66		270	66	ug/Kg	☼	01/15/14 16:00	01/21/14 03:32	50
n-Butylbenzene	**180**		130	17	ug/Kg	☼	01/15/14 16:00	01/21/14 03:32	50
N-Propylbenzene	**71**	**J**	270	24	ug/Kg	☼	01/15/14 16:00	01/21/14 03:32	50
p-Isopropyltoluene	**120**	**J**	270	25	ug/Kg	☼	01/15/14 16:00	01/21/14 03:32	50
sec-Butylbenzene	**81**	**J**	130	21	ug/Kg	☼	01/15/14 16:00	01/21/14 03:32	50
Styrene	<13		130	13	ug/Kg	☼	01/15/14 16:00	01/21/14 03:32	50
tert-Butylbenzene	<18		130	18	ug/Kg	☼	01/15/14 16:00	01/21/14 03:32	50
Tetrachloroethene	**160**		130	22	ug/Kg	☼	01/15/14 16:00	01/21/14 03:32	50
Toluene	<15		34	15	ug/Kg	☼	01/15/14 16:00	01/21/14 03:32	50
trans-1,2-Dichloroethene	<34		130	34	ug/Kg	☼	01/15/14 16:00	01/21/14 03:32	50
trans-1,3-Dichloropropene	<28		130	28	ug/Kg	☼	01/15/14 16:00	01/21/14 03:32	50
Trichloroethene	<25		67	25	ug/Kg	☼	01/15/14 16:00	01/21/14 03:32	50
Trichlorofluoromethane	<56		270	56	ug/Kg	☼	01/15/14 16:00	01/21/14 03:32	50
Vinyl chloride	<14		34	14	ug/Kg	☼	01/15/14 16:00	01/21/14 03:32	50
Xylenes, Total	<9.2		67	9.2	ug/Kg	☼	01/15/14 16:00	01/21/14 03:32	50

Client Sample ID: B-136 (10-12)

Lab Sample ID: 500-70141-2

Date Collected: 01/15/14 16:00
Matrix: Solid
Date Received: 01/16/14 10:20
Percent Solids: 94.3

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	94		75 - 125	01/15/14 16:00	01/21/14 03:32	50
4-Bromofluorobenzene (Surr)	102		75 - 120	01/15/14 16:00	01/21/14 03:32	50
Dibromofluoromethane	101		75 - 120	01/15/14 16:00	01/21/14 03:32	50
Toluene-d8 (Surr)	106		75 - 120	01/15/14 16:00	01/21/14 03:32	50

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<310		870	310	ug/Kg	☼	01/17/14 07:08	01/22/14 09:25	50
PCB-1221	<380		870	380	ug/Kg	☼	01/17/14 07:08	01/22/14 09:25	50
PCB-1232	<380		870	380	ug/Kg	☼	01/17/14 07:08	01/22/14 09:25	50
PCB-1242	**11000**		870	290	ug/Kg	☼	01/17/14 07:08	01/22/14 09:25	50
PCB-1248	<340		870	340	ug/Kg	☼	01/17/14 07:08	01/22/14 09:25	50
PCB-1254	<190		870	190	ug/Kg	☼	01/17/14 07:08	01/22/14 09:25	50
PCB-1260	<430		870	430	ug/Kg	☼	01/17/14 07:08	01/22/14 09:25	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	0	D	50 - 116	01/17/14 07:08	01/22/14 09:25	50
DCB Decachlorobiphenyl	0	D	48 - 142	01/17/14 07:08	01/22/14 09:25	50

Client Sample ID: B-189 (2-4)

Lab Sample ID: 500-70141-3

Date Collected: 01/15/14 16:05
Matrix: Solid
Date Received: 01/16/14 10:20
Percent Solids: 78.8

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<44		260	44	ug/Kg	☼	01/15/14 16:05	01/21/14 03:57	50
1,1,1-Trichloroethane	<26		130	26	ug/Kg	☼	01/15/14 16:05	01/21/14 03:57	50
1,1,2,2-Tetrachloroethane	<30		130	30	ug/Kg	☼	01/15/14 16:05	01/21/14 03:57	50
1,1,2-Trichloroethane	<36		130	36	ug/Kg	☼	01/15/14 16:05	01/21/14 03:57	50
1,1-Dichloroethane	<24		130	24	ug/Kg	☼	01/15/14 16:05	01/21/14 03:57	50
1,1-Dichloroethene	<39		130	39	ug/Kg	☼	01/15/14 16:05	01/21/14 03:57	50
1,1-Dichloropropene	<44		130	44	ug/Kg	☼	01/15/14 16:05	01/21/14 03:57	50
1,2,3-Trichlorobenzene	<45		260	45	ug/Kg	☼	01/15/14 16:05	01/21/14 03:57	50
1,2,3-Trichloropropane	<74		260	74	ug/Kg	☼	01/15/14 16:05	01/21/14 03:57	50
1,2,4-Trichlorobenzene	<49		260	49	ug/Kg	☼	01/15/14 16:05	01/21/14 03:57	50
1,2,4-Trimethylbenzene	<27		260	27	ug/Kg	☼	01/15/14 16:05	01/21/14 03:57	50
1,2-Dibromo-3-Chloropropane	<110		260	110	ug/Kg	☼	01/15/14 16:05	01/21/14 03:57	50
1,2-Dibromoethane	<40		260	40	ug/Kg	☼	01/15/14 16:05	01/21/14 03:57	50
1,2-Dichlorobenzene	<26		260	26	ug/Kg	☼	01/15/14 16:05	01/21/14 03:57	50
1,2-Dichloroethane	<37		130	37	ug/Kg	☼	01/15/14 16:05	01/21/14 03:57	50
1,2-Dichloropropane	<25		130	25	ug/Kg	☼	01/15/14 16:05	01/21/14 03:57	50
1,3,5-Trimethylbenzene	<26		260	26	ug/Kg	☼	01/15/14 16:05	01/21/14 03:57	50
1,3-Dichlorobenzene	<33		260	33	ug/Kg	☼	01/15/14 16:05	01/21/14 03:57	50
1,3-Dichloropropane	<17		130	17	ug/Kg	☼	01/15/14 16:05	01/21/14 03:57	50
1,4-Dichlorobenzene	<22		260	22	ug/Kg	☼	01/15/14 16:05	01/21/14 03:57	50
2,2-Dichloropropane	<41		130	41	ug/Kg	☼	01/15/14 16:05	01/21/14 03:57	50
2-Chlorotoluene	<27		130	27	ug/Kg	☼	01/15/14 16:05	01/21/14 03:57	50
4-Chlorotoluene	<25		130	25	ug/Kg	☼	01/15/14 16:05	01/21/14 03:57	50
Benzene	<9.5		32	9.5	ug/Kg	☼	01/15/14 16:05	01/21/14 03:57	50
Bromobenzene	<55		260	55	ug/Kg	☼	01/15/14 16:05	01/21/14 03:57	50
Bromochloromethane	<49		260	49	ug/Kg	☼	01/15/14 16:05	01/21/14 03:57	50

Client Sample ID: B-189 (2-4)
Date Collected: 01/15/14 16:05
Date Received: 01/16/14 10:20

Lab Sample ID: 500-70141-3
Matrix: Solid
Percent Solids: 78.8

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromodichloromethane	<43		260	43	ug/Kg	☼	01/15/14 16:05	01/21/14 03:57	50
Bromoform	<57		260	57	ug/Kg	☼	01/15/14 16:05	01/21/14 03:57	50
Bromomethane	<88		260	88	ug/Kg	☼	01/15/14 16:05	01/21/14 03:57	50
Carbon tetrachloride	<33		130	33	ug/Kg	☼	01/15/14 16:05	01/21/14 03:57	50
Chlorobenzene	<18		130	18	ug/Kg	☼	01/15/14 16:05	01/21/14 03:57	50
Chloroethane	<56		260	56	ug/Kg	☼	01/15/14 16:05	01/21/14 03:57	50
Chloroform	<26		130	26	ug/Kg	☼	01/15/14 16:05	01/21/14 03:57	50
Chloromethane	<59		260	59	ug/Kg	☼	01/15/14 16:05	01/21/14 03:57	50
cis-1,2-Dichloroethene	<16		130	16	ug/Kg	☼	01/15/14 16:05	01/21/14 03:57	50
cis-1,3-Dichloropropene	<23		130	23	ug/Kg	☼	01/15/14 16:05	01/21/14 03:57	50
Dibromochloromethane	<44		260	44	ug/Kg	☼	01/15/14 16:05	01/21/14 03:57	50
Dibromomethane	<62		260	62	ug/Kg	☼	01/15/14 16:05	01/21/14 03:57	50
Dichlorodifluoromethane	<66		260	66	ug/Kg	☼	01/15/14 16:05	01/21/14 03:57	50
Ethylbenzene	<16		32	16	ug/Kg	☼	01/15/14 16:05	01/21/14 03:57	50
Hexachlorobutadiene	<44		260	44	ug/Kg	☼	01/15/14 16:05	01/21/14 03:57	50
Isopropyl ether	<19		260	19	ug/Kg	☼	01/15/14 16:05	01/21/14 03:57	50
Isopropylbenzene	<32		260	32	ug/Kg	☼	01/15/14 16:05	01/21/14 03:57	50
Methyl tert-butyl ether	<55		260	55	ug/Kg	☼	01/15/14 16:05	01/21/14 03:57	50
Methylene Chloride	<88		640	88	ug/Kg	☼	01/15/14 16:05	01/21/14 03:57	50
Naphthalene	<63		260	63	ug/Kg	☼	01/15/14 16:05	01/21/14 03:57	50
n-Butylbenzene	<17		130	17	ug/Kg	☼	01/15/14 16:05	01/21/14 03:57	50
N-Propylbenzene	<22		260	22	ug/Kg	☼	01/15/14 16:05	01/21/14 03:57	50
p-Isopropyltoluene	<24		260	24	ug/Kg	☼	01/15/14 16:05	01/21/14 03:57	50
sec-Butylbenzene	<20		130	20	ug/Kg	☼	01/15/14 16:05	01/21/14 03:57	50
Styrene	<13		130	13	ug/Kg	☼	01/15/14 16:05	01/21/14 03:57	50
tert-Butylbenzene	<17		130	17	ug/Kg	☼	01/15/14 16:05	01/21/14 03:57	50
Tetrachloroethene	**350**		130	21	ug/Kg	☼	01/15/14 16:05	01/21/14 03:57	50
Toluene	<15		32	15	ug/Kg	☼	01/15/14 16:05	01/21/14 03:57	50
trans-1,2-Dichloroethene	<32		130	32	ug/Kg	☼	01/15/14 16:05	01/21/14 03:57	50
trans-1,3-Dichloropropene	<27		130	27	ug/Kg	☼	01/15/14 16:05	01/21/14 03:57	50
Trichloroethene	<24		64	24	ug/Kg	☼	01/15/14 16:05	01/21/14 03:57	50
Trichlorofluoromethane	<53		260	53	ug/Kg	☼	01/15/14 16:05	01/21/14 03:57	50
Vinyl chloride	<13		32	13	ug/Kg	☼	01/15/14 16:05	01/21/14 03:57	50
Xylenes, Total	<8.8		64	8.8	ug/Kg	☼	01/15/14 16:05	01/21/14 03:57	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*93*		*75 - 125*	*01/15/14 16:05*	*01/21/14 03:57*	*50*
4-Bromofluorobenzene (Surr)	*95*		*75 - 120*	*01/15/14 16:05*	*01/21/14 03:57*	*50*
Dibromofluoromethane	*103*		*75 - 120*	*01/15/14 16:05*	*01/21/14 03:57*	*50*
Toluene-d8 (Surr)	*106*		*75 - 120*	*01/15/14 16:05*	*01/21/14 03:57*	*50*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<7.4		21	7.4	ug/Kg	☼	01/17/14 07:08	01/21/14 14:44	1
PCB-1221	<9.3		21	9.3	ug/Kg	☼	01/17/14 07:08	01/21/14 14:44	1
PCB-1232	<9.2		21	9.2	ug/Kg	☼	01/17/14 07:08	01/21/14 14:44	1
PCB-1242	<6.9		21	6.9	ug/Kg	☼	01/17/14 07:08	01/21/14 14:44	1
PCB-1248	<8.3		21	8.3	ug/Kg	☼	01/17/14 07:08	01/21/14 14:44	1
PCB-1254	<4.5		21	4.5	ug/Kg	☼	01/17/14 07:08	01/21/14 14:44	1
PCB-1260	<10		21	10	ug/Kg	☼	01/17/14 07:08	01/21/14 14:44	1

Client Sample ID: B-189 (2-4)

Date Collected: 01/15/14 16:05
Date Received: 01/16/14 10:20

Lab Sample ID: 500-70141-3
Matrix: Solid
Percent Solids: 78.8

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	*68*		*50 - 116*	*01/17/14 07:08*	*01/21/14 14:44*	*1*
DCB Decachlorobiphenyl	*88*		*48 - 142*	*01/17/14 07:08*	*01/21/14 14:44*	*1*

Client Sample ID: B-189 (16-18)

Date Collected: 01/15/14 16:10
Date Received: 01/16/14 10:20

Lab Sample ID: 500-70141-4
Matrix: Solid
Percent Solids: 92.9

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<47		270	47	ug/Kg	☼	01/15/14 16:10	01/21/14 04:21	50
1,1,1-Trichloroethane	<27		130	27	ug/Kg	☼	01/15/14 16:10	01/21/14 04:21	50
1,1,2,2-Tetrachloroethane	<32		130	32	ug/Kg	☼	01/15/14 16:10	01/21/14 04:21	50
1,1,2-Trichloroethane	<38		130	38	ug/Kg	☼	01/15/14 16:10	01/21/14 04:21	50
1,1-Dichloroethane	<25		130	25	ug/Kg	☼	01/15/14 16:10	01/21/14 04:21	50
1,1-Dichloroethene	<41		130	41	ug/Kg	☼	01/15/14 16:10	01/21/14 04:21	50
1,1-Dichloropropene	<46		130	46	ug/Kg	☼	01/15/14 16:10	01/21/14 04:21	50
1,2,3-Trichlorobenzene	<47		270	47	ug/Kg	☼	01/15/14 16:10	01/21/14 04:21	50
1,2,3-Trichloropropane	<77		270	77	ug/Kg	☼	01/15/14 16:10	01/21/14 04:21	50
1,2,4-Trichlorobenzene	<51		270	51	ug/Kg	☼	01/15/14 16:10	01/21/14 04:21	50
1,2,4-Trimethylbenzene	<28		270	28	ug/Kg	☼	01/15/14 16:10	01/21/14 04:21	50
1,2-Dibromo-3-Chloropropane	<120		270	120	ug/Kg	☼	01/15/14 16:10	01/21/14 04:21	50
1,2-Dibromoethane	<42		270	42	ug/Kg	☼	01/15/14 16:10	01/21/14 04:21	50
1,2-Dichlorobenzene	<28		270	28	ug/Kg	☼	01/15/14 16:10	01/21/14 04:21	50
1,2-Dichloroethane	<38		130	38	ug/Kg	☼	01/15/14 16:10	01/21/14 04:21	50
1,2-Dichloropropane	<26		130	26	ug/Kg	☼	01/15/14 16:10	01/21/14 04:21	50
1,3,5-Trimethylbenzene	<28		270	28	ug/Kg	☼	01/15/14 16:10	01/21/14 04:21	50
1,3-Dichlorobenzene	<35		270	35	ug/Kg	☼	01/15/14 16:10	01/21/14 04:21	50
1,3-Dichloropropane	<18		130	18	ug/Kg	☼	01/15/14 16:10	01/21/14 04:21	50
1,4-Dichlorobenzene	<23		270	23	ug/Kg	☼	01/15/14 16:10	01/21/14 04:21	50
2,2-Dichloropropane	<43		130	43	ug/Kg	☼	01/15/14 16:10	01/21/14 04:21	50
2-Chlorotoluene	<28		130	28	ug/Kg	☼	01/15/14 16:10	01/21/14 04:21	50
4-Chlorotoluene	<27		130	27	ug/Kg	☼	01/15/14 16:10	01/21/14 04:21	50
Benzene	<10		34	10	ug/Kg	☼	01/15/14 16:10	01/21/14 04:21	50
Bromobenzene	<57		270	57	ug/Kg	☼	01/15/14 16:10	01/21/14 04:21	50
Bromochloromethane	<51		270	51	ug/Kg	☼	01/15/14 16:10	01/21/14 04:21	50
Bromodichloromethane	<46		270	46	ug/Kg	☼	01/15/14 16:10	01/21/14 04:21	50
Bromoform	<59		270	59	ug/Kg	☼	01/15/14 16:10	01/21/14 04:21	50
Bromomethane	<92		270	92	ug/Kg	☼	01/15/14 16:10	01/21/14 04:21	50
Carbon tetrachloride	<35		130	35	ug/Kg	☼	01/15/14 16:10	01/21/14 04:21	50
Chlorobenzene	<19		130	19	ug/Kg	☼	01/15/14 16:10	01/21/14 04:21	50
Chloroethane	<59		270	59	ug/Kg	☼	01/15/14 16:10	01/21/14 04:21	50
Chloroform	<28		130	28	ug/Kg	☼	01/15/14 16:10	01/21/14 04:21	50
Chloromethane	<62		270	62	ug/Kg	☼	01/15/14 16:10	01/21/14 04:21	50
cis-1,2-Dichloroethene	<17		130	17	ug/Kg	☼	01/15/14 16:10	01/21/14 04:21	50
cis-1,3-Dichloropropene	<24		130	24	ug/Kg	☼	01/15/14 16:10	01/21/14 04:21	50
Dibromochloromethane	<47		270	47	ug/Kg	☼	01/15/14 16:10	01/21/14 04:21	50
Dibromomethane	<65		270	65	ug/Kg	☼	01/15/14 16:10	01/21/14 04:21	50
Dichlorodifluoromethane	<69		270	69	ug/Kg	☼	01/15/14 16:10	01/21/14 04:21	50
Ethylbenzene	<17		34	17	ug/Kg	☼	01/15/14 16:10	01/21/14 04:21	50
Hexachlorobutadiene	<47		270	47	ug/Kg	☼	01/15/14 16:10	01/21/14 04:21	50

Client Sample ID: B-189 (16-18)

Lab Sample ID: 500-70141-4

Date Collected: 01/15/14 16:10
Matrix: Solid
Date Received: 01/16/14 10:20
Percent Solids: 92.9

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isopropyl ether	<20		270	20	ug/Kg	☼	01/15/14 16:10	01/21/14 04:21	50
Isopropylbenzene	<34		270	34	ug/Kg	☼	01/15/14 16:10	01/21/14 04:21	50
Methyl tert-butyl ether	<58		270	58	ug/Kg	☼	01/15/14 16:10	01/21/14 04:21	50
Methylene Chloride	<92		670	92	ug/Kg	☼	01/15/14 16:10	01/21/14 04:21	50
Naphthalene	<67		270	67	ug/Kg	☼	01/15/14 16:10	01/21/14 04:21	50
n-Butylbenzene	<17		130	17	ug/Kg	☼	01/15/14 16:10	01/21/14 04:21	50
N-Propylbenzene	<24		270	24	ug/Kg	☼	01/15/14 16:10	01/21/14 04:21	50
p-Isopropyltoluene	<25		270	25	ug/Kg	☼	01/15/14 16:10	01/21/14 04:21	50
sec-Butylbenzene	<21		130	21	ug/Kg	☼	01/15/14 16:10	01/21/14 04:21	50
Styrene	<13		130	13	ug/Kg	☼	01/15/14 16:10	01/21/14 04:21	50
tert-Butylbenzene	<18		130	18	ug/Kg	☼	01/15/14 16:10	01/21/14 04:21	50
Tetrachloroethene	<23		130	23	ug/Kg	☼	01/15/14 16:10	01/21/14 04:21	50
Toluene	<16		34	16	ug/Kg	☼	01/15/14 16:10	01/21/14 04:21	50
trans-1,2-Dichloroethene	<34		130	34	ug/Kg	☼	01/15/14 16:10	01/21/14 04:21	50
trans-1,3-Dichloropropene	<28		130	28	ug/Kg	☼	01/15/14 16:10	01/21/14 04:21	50
Trichloroethene	<25		67	25	ug/Kg	☼	01/15/14 16:10	01/21/14 04:21	50
Trichlorofluoromethane	<56		270	56	ug/Kg	☼	01/15/14 16:10	01/21/14 04:21	50
Vinyl chloride	<14		34	14	ug/Kg	☼	01/15/14 16:10	01/21/14 04:21	50
Xylenes, Total	<9.2		67	9.2	ug/Kg	☼	01/15/14 16:10	01/21/14 04:21	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*93*		*75 - 125*	*01/15/14 16:10*	*01/21/14 04:21*	*50*
4-Bromofluorobenzene (Surr)	*92*		*75 - 120*	*01/15/14 16:10*	*01/21/14 04:21*	*50*
Dibromofluoromethane	*102*		*75 - 120*	*01/15/14 16:10*	*01/21/14 04:21*	*50*
Toluene-d8 (Surr)	*106*		*75 - 120*	*01/15/14 16:10*	*01/21/14 04:21*	*50*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<6.2		17	6.2	ug/Kg	☼	01/17/14 07:08	01/21/14 14:58	1
PCB-1221	<7.7		17	7.7	ug/Kg	☼	01/17/14 07:08	01/21/14 14:58	1
PCB-1232	<7.6		17	7.6	ug/Kg	☼	01/17/14 07:08	01/21/14 14:58	1
PCB-1242	**14**	**J**	17	5.7	ug/Kg	☼	01/17/14 07:08	01/21/14 14:58	1
PCB-1248	<6.9		17	6.9	ug/Kg	☼	01/17/14 07:08	01/21/14 14:58	1
PCB-1254	<3.8		17	3.8	ug/Kg	☼	01/17/14 07:08	01/21/14 14:58	1
PCB-1260	<8.5		17	8.5	ug/Kg	☼	01/17/14 07:08	01/21/14 14:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*74*		*50 - 116*	*01/17/14 07:08*	*01/21/14 14:58*	*1*
DCB Decachlorobiphenyl	*94*		*48 - 142*	*01/17/14 07:08*	*01/21/14 14:58*	*1*

Client Sample ID: B-189 (8-10)

Lab Sample ID: 500-70141-5

Date Collected: 01/15/14 16:15
Matrix: Solid
Date Received: 01/16/14 10:20
Percent Solids: 93.9

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<50		290	50	ug/Kg	☼	01/15/14 16:15	01/21/14 04:46	50
1,1,1-Trichloroethane	<29		140	29	ug/Kg	☼	01/15/14 16:15	01/21/14 04:46	50
1,1,2,2-Tetrachloroethane	<34		140	34	ug/Kg	☼	01/15/14 16:15	01/21/14 04:46	50
1,1,2-Trichloroethane	<40		140	40	ug/Kg	☼	01/15/14 16:15	01/21/14 04:46	50

Client: ARCADIS U.S., Inc.
Project/Site: MadisonKipp WI001368.0012.00001

TestAmerica Job ID: 500-70141-1

Client Sample ID: B-189 (8-10)
Date Collected: 01/15/14 16:15
Date Received: 01/16/14 10:20

Lab Sample ID: 500-70141-5
Matrix: Solid
Percent Solids: 93.9

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	<27		140	27	ug/Kg	☼	01/15/14 16:15	01/21/14 04:46	50
1,1-Dichloroethene	<44		140	44	ug/Kg	☼	01/15/14 16:15	01/21/14 04:46	50
1,1-Dichloropropene	<49		140	49	ug/Kg	☼	01/15/14 16:15	01/21/14 04:46	50
1,2,3-Trichlorobenzene	<50		290	50	ug/Kg	☼	01/15/14 16:15	01/21/14 04:46	50
1,2,3-Trichloropropane	<82		290	82	ug/Kg	☼	01/15/14 16:15	01/21/14 04:46	50
1,2,4-Trichlorobenzene	<54		290	54	ug/Kg	☼	01/15/14 16:15	01/21/14 04:46	50
1,2,4-Trimethylbenzene	<30		290	30	ug/Kg	☼	01/15/14 16:15	01/21/14 04:46	50
1,2-Dibromo-3-Chloropropane	<130		290	130	ug/Kg	☼	01/15/14 16:15	01/21/14 04:46	50
1,2-Dibromoethane	<45		290	45	ug/Kg	☼	01/15/14 16:15	01/21/14 04:46	50
1,2-Dichlorobenzene	<29		290	29	ug/Kg	☼	01/15/14 16:15	01/21/14 04:46	50
1,2-Dichloroethane	<41		140	41	ug/Kg	☼	01/15/14 16:15	01/21/14 04:46	50
1,2-Dichloropropane	<28		140	28	ug/Kg	☼	01/15/14 16:15	01/21/14 04:46	50
1,3,5-Trimethylbenzene	<30		290	30	ug/Kg	☼	01/15/14 16:15	01/21/14 04:46	50
1,3-Dichlorobenzene	<37		290	37	ug/Kg	☼	01/15/14 16:15	01/21/14 04:46	50
1,3-Dichloropropane	<19		140	19	ug/Kg	☼	01/15/14 16:15	01/21/14 04:46	50
1,4-Dichlorobenzene	<25		290	25	ug/Kg	☼	01/15/14 16:15	01/21/14 04:46	50
2,2-Dichloropropane	<45		140	45	ug/Kg	☼	01/15/14 16:15	01/21/14 04:46	50
2-Chlorotoluene	<30		140	30	ug/Kg	☼	01/15/14 16:15	01/21/14 04:46	50
4-Chlorotoluene	<28		140	28	ug/Kg	☼	01/15/14 16:15	01/21/14 04:46	50
Benzene	<11		36	11	ug/Kg	☼	01/15/14 16:15	01/21/14 04:46	50
Bromobenzene	<61		290	61	ug/Kg	☼	01/15/14 16:15	01/21/14 04:46	50
Bromochloromethane	<54		290	54	ug/Kg	☼	01/15/14 16:15	01/21/14 04:46	50
Bromodichloromethane	<49		290	49	ug/Kg	☼	01/15/14 16:15	01/21/14 04:46	50
Bromoform	<63		290	63	ug/Kg	☼	01/15/14 16:15	01/21/14 04:46	50
Bromomethane	<98		290	98	ug/Kg	☼	01/15/14 16:15	01/21/14 04:46	50
Carbon tetrachloride	<37		140	37	ug/Kg	☼	01/15/14 16:15	01/21/14 04:46	50
Chlorobenzene	<21		140	21	ug/Kg	☼	01/15/14 16:15	01/21/14 04:46	50
Chloroethane	<62		290	62	ug/Kg	☼	01/15/14 16:15	01/21/14 04:46	50
Chloroform	<29		140	29	ug/Kg	☼	01/15/14 16:15	01/21/14 04:46	50
Chloromethane	<66		290	66	ug/Kg	☼	01/15/14 16:15	01/21/14 04:46	50
cis-1,2-Dichloroethene	<18		140	18	ug/Kg	☼	01/15/14 16:15	01/21/14 04:46	50
cis-1,3-Dichloropropene	<26		140	26	ug/Kg	☼	01/15/14 16:15	01/21/14 04:46	50
Dibromochloromethane	<50		290	50	ug/Kg	☼	01/15/14 16:15	01/21/14 04:46	50
Dibromomethane	<69		290	69	ug/Kg	☼	01/15/14 16:15	01/21/14 04:46	50
Dichlorodifluoromethane	<74		290	74	ug/Kg	☼	01/15/14 16:15	01/21/14 04:46	50
Ethylbenzene	<18		36	18	ug/Kg	☼	01/15/14 16:15	01/21/14 04:46	50
Hexachlorobutadiene	<50		290	50	ug/Kg	☼	01/15/14 16:15	01/21/14 04:46	50
Isopropyl ether	<21		290	21	ug/Kg	☼	01/15/14 16:15	01/21/14 04:46	50
Isopropylbenzene	<36		290	36	ug/Kg	☼	01/15/14 16:15	01/21/14 04:46	50
Methyl tert-butyl ether	<62		290	62	ug/Kg	☼	01/15/14 16:15	01/21/14 04:46	50
Methylene Chloride	<98		720	98	ug/Kg	☼	01/15/14 16:15	01/21/14 04:46	50
Naphthalene	<71		290	71	ug/Kg	☼	01/15/14 16:15	01/21/14 04:46	50
n-Butylbenzene	<19		140	19	ug/Kg	☼	01/15/14 16:15	01/21/14 04:46	50
N-Propylbenzene	<25		290	25	ug/Kg	☼	01/15/14 16:15	01/21/14 04:46	50
p-Isopropyltoluene	<27		290	27	ug/Kg	☼	01/15/14 16:15	01/21/14 04:46	50
sec-Butylbenzene	<22		140	22	ug/Kg	☼	01/15/14 16:15	01/21/14 04:46	50
Styrene	<14		140	14	ug/Kg	☼	01/15/14 16:15	01/21/14 04:46	50
tert-Butylbenzene	<20		140	20	ug/Kg	☼	01/15/14 16:15	01/21/14 04:46	50
Tetrachloroethene	<24		140	24	ug/Kg	☼	01/15/14 16:15	01/21/14 04:46	50

Client Sample ID: B-189 (8-10)

Lab Sample ID: 500-70141-5

Date Collected: 01/15/14 16:15
Matrix: Solid
Date Received: 01/16/14 10:20
Percent Solids: 93.9

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	<17		36	17	ug/Kg	☼	01/15/14 16:15	01/21/14 04:46	50
trans-1,2-Dichloroethene	<36		140	36	ug/Kg	☼	01/15/14 16:15	01/21/14 04:46	50
trans-1,3-Dichloropropene	<30		140	30	ug/Kg	☼	01/15/14 16:15	01/21/14 04:46	50
Trichloroethene	<27		72	27	ug/Kg	☼	01/15/14 16:15	01/21/14 04:46	50
Trichlorofluoromethane	<60		290	60	ug/Kg	☼	01/15/14 16:15	01/21/14 04:46	50
Vinyl chloride	<15		36	15	ug/Kg	☼	01/15/14 16:15	01/21/14 04:46	50
Xylenes, Total	<9.8		72	9.8	ug/Kg	☼	01/15/14 16:15	01/21/14 04:46	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*93*		*75 - 125*	*01/15/14 16:15*	*01/21/14 04:46*	*50*
4-Bromofluorobenzene (Surr)	*92*		*75 - 120*	*01/15/14 16:15*	*01/21/14 04:46*	*50*
Dibromofluoromethane	*101*		*75 - 120*	*01/15/14 16:15*	*01/21/14 04:46*	*50*
Toluene-d8 (Surr)	*106*		*75 - 120*	*01/15/14 16:15*	*01/21/14 04:46*	*50*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<6.1		17	6.1	ug/Kg	☼	01/17/14 07:08	01/21/14 15:12	1
PCB-1221	<7.6		17	7.6	ug/Kg	☼	01/17/14 07:08	01/21/14 15:12	1
PCB-1232	<7.5		17	7.5	ug/Kg	☼	01/17/14 07:08	01/21/14 15:12	1
PCB-1242	**8.8**	**J**	17	5.7	ug/Kg	☼	01/17/14 07:08	01/21/14 15:12	1
PCB-1248	<6.8		17	6.8	ug/Kg	☼	01/17/14 07:08	01/21/14 15:12	1
PCB-1254	<3.7		17	3.7	ug/Kg	☼	01/17/14 07:08	01/21/14 15:12	1
PCB-1260	<8.5		17	8.5	ug/Kg	☼	01/17/14 07:08	01/21/14 15:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*80*		*50 - 116*	*01/17/14 07:08*	*01/21/14 15:12*	*1*
DCB Decachlorobiphenyl	*94*		*48 - 142*	*01/17/14 07:08*	*01/21/14 15:12*	*1*

Client Sample ID: B-190 (0-2)

Lab Sample ID: 500-70141-6

Date Collected: 01/15/14 16:20
Matrix: Solid
Date Received: 01/16/14 10:20
Percent Solids: 83.1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<620		3600	620	ug/Kg	☼	01/15/14 16:20	01/21/14 05:11	500
1,1,1-Trichloroethane	<360		1800	360	ug/Kg	☼	01/15/14 16:20	01/21/14 05:11	500
1,1,2,2-Tetrachloroethane	<420		1800	420	ug/Kg	☼	01/15/14 16:20	01/21/14 05:11	500
1,1,2-Trichloroethane	<500		1800	500	ug/Kg	☼	01/15/14 16:20	01/21/14 05:11	500
1,1-Dichloroethane	<330		1800	330	ug/Kg	☼	01/15/14 16:20	01/21/14 05:11	500
1,1-Dichloroethene	<550		1800	550	ug/Kg	☼	01/15/14 16:20	01/21/14 05:11	500
1,1-Dichloropropene	<610		1800	610	ug/Kg	☼	01/15/14 16:20	01/21/14 05:11	500
1,2,3-Trichlorobenzene	<620		3600	620	ug/Kg	☼	01/15/14 16:20	01/21/14 05:11	500
1,2,3-Trichloropropane	<1000		3600	1000	ug/Kg	☼	01/15/14 16:20	01/21/14 05:11	500
1,2,4-Trichlorobenzene	<670		3600	670	ug/Kg	☼	01/15/14 16:20	01/21/14 05:11	500
1,2,4-Trimethylbenzene	**14000**		3600	380	ug/Kg	☼	01/15/14 16:20	01/21/14 05:11	500
1,2-Dibromo-3-Chloropropane	<1600		3600	1600	ug/Kg	☼	01/15/14 16:20	01/21/14 05:11	500
1,2-Dibromoethane	<560		3600	560	ug/Kg	☼	01/15/14 16:20	01/21/14 05:11	500
1,2-Dichlorobenzene	<360		3600	360	ug/Kg	☼	01/15/14 16:20	01/21/14 05:11	500
1,2-Dichloroethane	<510		1800	510	ug/Kg	☼	01/15/14 16:20	01/21/14 05:11	500
1,2-Dichloropropane	<350		1800	350	ug/Kg	☼	01/15/14 16:20	01/21/14 05:11	500

Client: ARCADIS U.S., Inc.
Project/Site: MadisonKipp WI001368.0012.00001

TestAmerica Job ID: 500-70141-1

Client Sample ID: B-190 (0-2)
Date Collected: 01/15/14 16:20
Date Received: 01/16/14 10:20

Lab Sample ID: 500-70141-6
Matrix: Solid
Percent Solids: 83.1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3,5-Trimethylbenzene	**5000**		3600	370	ug/Kg	☼	01/15/14 16:20	01/21/14 05:11	500
1,3-Dichlorobenzene	<460		3600	460	ug/Kg	☼	01/15/14 16:20	01/21/14 05:11	500
1,3-Dichloropropane	<240		1800	240	ug/Kg	☼	01/15/14 16:20	01/21/14 05:11	500
1,4-Dichlorobenzene	<310		3600	310	ug/Kg	☼	01/15/14 16:20	01/21/14 05:11	500
2,2-Dichloropropane	<560		1800	560	ug/Kg	☼	01/15/14 16:20	01/21/14 05:11	500
2-Chlorotoluene	<370		1800	370	ug/Kg	☼	01/15/14 16:20	01/21/14 05:11	500
4-Chlorotoluene	<350		1800	350	ug/Kg	☼	01/15/14 16:20	01/21/14 05:11	500
Benzene	<130		450	130	ug/Kg	☼	01/15/14 16:20	01/21/14 05:11	500
Bromobenzene	<760		3600	760	ug/Kg	☼	01/15/14 16:20	01/21/14 05:11	500
Bromochloromethane	<670		3600	670	ug/Kg	☼	01/15/14 16:20	01/21/14 05:11	500
Bromodichloromethane	<600		3600	600	ug/Kg	☼	01/15/14 16:20	01/21/14 05:11	500
Bromoform	<790		3600	790	ug/Kg	☼	01/15/14 16:20	01/21/14 05:11	500
Bromomethane	<1200		3600	1200	ug/Kg	☼	01/15/14 16:20	01/21/14 05:11	500
Carbon tetrachloride	<460		1800	460	ug/Kg	☼	01/15/14 16:20	01/21/14 05:11	500
Chlorobenzene	<250		1800	250	ug/Kg	☼	01/15/14 16:20	01/21/14 05:11	500
Chloroethane	<770		3600	770	ug/Kg	☼	01/15/14 16:20	01/21/14 05:11	500
Chloroform	<360		1800	360	ug/Kg	☼	01/15/14 16:20	01/21/14 05:11	500
Chloromethane	<820		3600	820	ug/Kg	☼	01/15/14 16:20	01/21/14 05:11	500
cis-1,2-Dichloroethene	**120000**		1800	220	ug/Kg	☼	01/15/14 16:20	01/21/14 05:11	500
cis-1,3-Dichloropropene	<320		1800	320	ug/Kg	☼	01/15/14 16:20	01/21/14 05:11	500
Dibromochloromethane	<620		3600	620	ug/Kg	☼	01/15/14 16:20	01/21/14 05:11	500
Dibromomethane	<850		3600	850	ug/Kg	☼	01/15/14 16:20	01/21/14 05:11	500
Dichlorodifluoromethane	<910		3600	910	ug/Kg	☼	01/15/14 16:20	01/21/14 05:11	500
Ethylbenzene	**600**		450	220	ug/Kg	☼	01/15/14 16:20	01/21/14 05:11	500
Hexachlorobutadiene	<620		3600	620	ug/Kg	☼	01/15/14 16:20	01/21/14 05:11	500
Isopropyl ether	<260		3600	260	ug/Kg	☼	01/15/14 16:20	01/21/14 05:11	500
Isopropylbenzene	**1400**	**J**	3600	450	ug/Kg	☼	01/15/14 16:20	01/21/14 05:11	500
Methyl tert-butyl ether	<770		3600	770	ug/Kg	☼	01/15/14 16:20	01/21/14 05:11	500
Methylene Chloride	<1200		8900	1200	ug/Kg	☼	01/15/14 16:20	01/21/14 05:11	500
Naphthalene	**2100**	**J**	3600	880	ug/Kg	☼	01/15/14 16:20	01/21/14 05:11	500
n-Butylbenzene	**4600**		1800	230	ug/Kg	☼	01/15/14 16:20	01/21/14 05:11	500
N-Propylbenzene	**3900**		3600	310	ug/Kg	☼	01/15/14 16:20	01/21/14 05:11	500
p-Isopropyltoluene	**2800**	**J**	3600	330	ug/Kg	☼	01/15/14 16:20	01/21/14 05:11	500
sec-Butylbenzene	**2600**		1800	270	ug/Kg	☼	01/15/14 16:20	01/21/14 05:11	500
Styrene	<180		1800	180	ug/Kg	☼	01/15/14 16:20	01/21/14 05:11	500
tert-Butylbenzene	<240		1800	240	ug/Kg	☼	01/15/14 16:20	01/21/14 05:11	500
Toluene	<200		450	200	ug/Kg	☼	01/15/14 16:20	01/21/14 05:11	500
trans-1,2-Dichloroethene	**4700**		1800	450	ug/Kg	☼	01/15/14 16:20	01/21/14 05:11	500
trans-1,3-Dichloropropene	<370		1800	370	ug/Kg	☼	01/15/14 16:20	01/21/14 05:11	500
Trichloroethene	**150000**		890	330	ug/Kg	☼	01/15/14 16:20	01/21/14 05:11	500
Trichlorofluoromethane	<740		3600	740	ug/Kg	☼	01/15/14 16:20	01/21/14 05:11	500
Vinyl chloride	<190		450	190	ug/Kg	☼	01/15/14 16:20	01/21/14 05:11	500
Xylenes, Total	**2800**		890	120	ug/Kg	☼	01/15/14 16:20	01/21/14 05:11	500

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*93*		*75 - 125*	*01/15/14 16:20*	*01/21/14 05:11*	*500*
4-Bromofluorobenzene (Surr)	*100*		*75 - 120*	*01/15/14 16:20*	*01/21/14 05:11*	*500*
Dibromofluoromethane	*101*		*75 - 120*	*01/15/14 16:20*	*01/21/14 05:11*	*500*
Toluene-d8 (Surr)	*104*		*75 - 120*	*01/15/14 16:20*	*01/21/14 05:11*	*500*

Client Sample ID: B-190 (0-2)

Lab Sample ID: 500-70141-6

Date Collected: 01/15/14 16:20
Matrix: Solid
Date Received: 01/16/14 10:20
Percent Solids: 83.1

Method: 8260B - Volatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	2400000		18000	3000	ug/Kg	☼	01/15/14 16:20	01/21/14 05:35	5000

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*92*		*75 - 125*	*01/15/14 16:20*	*01/21/14 05:35*	*5000*
4-Bromofluorobenzene (Surr)	*94*		*75 - 120*	*01/15/14 16:20*	*01/21/14 05:35*	*5000*
Dibromofluoromethane	*102*		*75 - 120*	*01/15/14 16:20*	*01/21/14 05:35*	*5000*
Toluene-d8 (Surr)	*104*		*75 - 120*	*01/15/14 16:20*	*01/21/14 05:35*	*5000*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<6.9		20	6.9	ug/Kg	☼	01/17/14 07:08	01/21/14 15:25	1
PCB-1221	<8.6		20	8.6	ug/Kg	☼	01/17/14 07:08	01/21/14 15:25	1
PCB-1232	<8.5		20	8.5	ug/Kg	☼	01/17/14 07:08	01/21/14 15:25	1
PCB-1242	300		20	6.4	ug/Kg	☼	01/17/14 07:08	01/21/14 15:25	1
PCB-1248	<7.7		20	7.7	ug/Kg	☼	01/17/14 07:08	01/21/14 15:25	1
PCB-1254	<4.2		20	4.2	ug/Kg	☼	01/17/14 07:08	01/21/14 15:25	1
PCB-1260	<9.6		20	9.6	ug/Kg	☼	01/17/14 07:08	01/21/14 15:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*147*	*X*	*50 - 116*	*01/17/14 07:08*	*01/21/14 15:25*	*1*
DCB Decachlorobiphenyl	*78*		*48 - 142*	*01/17/14 07:08*	*01/21/14 15:25*	*1*

Client Sample ID: B-190 (10-12)

Lab Sample ID: 500-70141-7

Date Collected: 01/15/14 16:25
Matrix: Solid
Date Received: 01/16/14 10:20
Percent Solids: 94.3

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<56		320	56	ug/Kg	☼	01/15/14 16:25	01/21/14 06:00	50
1,1,1-Trichloroethane	<33		160	33	ug/Kg	☼	01/15/14 16:25	01/21/14 06:00	50
1,1,2,2-Tetrachloroethane	<38		160	38	ug/Kg	☼	01/15/14 16:25	01/21/14 06:00	50
1,1,2-Trichloroethane	<45		160	45	ug/Kg	☼	01/15/14 16:25	01/21/14 06:00	50
1,1-Dichloroethane	<30		160	30	ug/Kg	☼	01/15/14 16:25	01/21/14 06:00	50
1,1-Dichloroethene	<50		160	50	ug/Kg	☼	01/15/14 16:25	01/21/14 06:00	50
1,1-Dichloropropene	<56		160	56	ug/Kg	☼	01/15/14 16:25	01/21/14 06:00	50
1,2,3-Trichlorobenzene	<57		320	57	ug/Kg	☼	01/15/14 16:25	01/21/14 06:00	50
1,2,3-Trichloropropane	<93		320	93	ug/Kg	☼	01/15/14 16:25	01/21/14 06:00	50
1,2,4-Trichlorobenzene	<61		320	61	ug/Kg	☼	01/15/14 16:25	01/21/14 06:00	50
1,2,4-Trimethylbenzene	<34		320	34	ug/Kg	☼	01/15/14 16:25	01/21/14 06:00	50
1,2-Dibromo-3-Chloropropane	<140		320	140	ug/Kg	☼	01/15/14 16:25	01/21/14 06:00	50
1,2-Dibromoethane	<51		320	51	ug/Kg	☼	01/15/14 16:25	01/21/14 06:00	50
1,2-Dichlorobenzene	<33		320	33	ug/Kg	☼	01/15/14 16:25	01/21/14 06:00	50
1,2-Dichloroethane	<46		160	46	ug/Kg	☼	01/15/14 16:25	01/21/14 06:00	50
1,2-Dichloropropane	<32		160	32	ug/Kg	☼	01/15/14 16:25	01/21/14 06:00	50
1,3,5-Trimethylbenzene	<33		320	33	ug/Kg	☼	01/15/14 16:25	01/21/14 06:00	50
1,3-Dichlorobenzene	<42		320	42	ug/Kg	☼	01/15/14 16:25	01/21/14 06:00	50
1,3-Dichloropropane	<22		160	22	ug/Kg	☼	01/15/14 16:25	01/21/14 06:00	50
1,4-Dichlorobenzene	<28		320	28	ug/Kg	☼	01/15/14 16:25	01/21/14 06:00	50
2,2-Dichloropropane	<51		160	51	ug/Kg	☼	01/15/14 16:25	01/21/14 06:00	50
2-Chlorotoluene	<33		160	33	ug/Kg	☼	01/15/14 16:25	01/21/14 06:00	50

Client Sample ID: B-190 (10-12)
Date Collected: 01/15/14 16:25
Date Received: 01/16/14 10:20

Lab Sample ID: 500-70141-7
Matrix: Solid
Percent Solids: 94.3

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Chlorotoluene	<32		160	32	ug/Kg	☼	01/15/14 16:25	01/21/14 06:00	50
Benzene	<12		40	12	ug/Kg	☼	01/15/14 16:25	01/21/14 06:00	50
Bromobenzene	<69		320	69	ug/Kg	☼	01/15/14 16:25	01/21/14 06:00	50
Bromochloromethane	<61		320	61	ug/Kg	☼	01/15/14 16:25	01/21/14 06:00	50
Bromodichloromethane	<55		320	55	ug/Kg	☼	01/15/14 16:25	01/21/14 06:00	50
Bromoform	<71		320	71	ug/Kg	☼	01/15/14 16:25	01/21/14 06:00	50
Bromomethane	<110		320	110	ug/Kg	☼	01/15/14 16:25	01/21/14 06:00	50
Carbon tetrachloride	<42		160	42	ug/Kg	☼	01/15/14 16:25	01/21/14 06:00	50
Chlorobenzene	<23		160	23	ug/Kg	☼	01/15/14 16:25	01/21/14 06:00	50
Chloroethane	<70		320	70	ug/Kg	☼	01/15/14 16:25	01/21/14 06:00	50
Chloroform	<33		160	33	ug/Kg	☼	01/15/14 16:25	01/21/14 06:00	50
Chloromethane	<75		320	75	ug/Kg	☼	01/15/14 16:25	01/21/14 06:00	50
cis-1,2-Dichloroethene	<20		160	20	ug/Kg	☼	01/15/14 16:25	01/21/14 06:00	50
cis-1,3-Dichloropropene	<29		160	29	ug/Kg	☼	01/15/14 16:25	01/21/14 06:00	50
Dibromochloromethane	<56		320	56	ug/Kg	☼	01/15/14 16:25	01/21/14 06:00	50
Dibromomethane	<78		320	78	ug/Kg	☼	01/15/14 16:25	01/21/14 06:00	50
Dichlorodifluoromethane	<83		320	83	ug/Kg	☼	01/15/14 16:25	01/21/14 06:00	50
Ethylbenzene	<20		40	20	ug/Kg	☼	01/15/14 16:25	01/21/14 06:00	50
Hexachlorobutadiene	<56		320	56	ug/Kg	☼	01/15/14 16:25	01/21/14 06:00	50
Isopropyl ether	<24		320	24	ug/Kg	☼	01/15/14 16:25	01/21/14 06:00	50
Isopropylbenzene	<41		320	41	ug/Kg	☼	01/15/14 16:25	01/21/14 06:00	50
Methyl tert-butyl ether	<70		320	70	ug/Kg	☼	01/15/14 16:25	01/21/14 06:00	50
Methylene Chloride	<110		810	110	ug/Kg	☼	01/15/14 16:25	01/21/14 06:00	50
Naphthalene	<80		320	80	ug/Kg	☼	01/15/14 16:25	01/21/14 06:00	50
n-Butylbenzene	<21		160	21	ug/Kg	☼	01/15/14 16:25	01/21/14 06:00	50
N-Propylbenzene	<28		320	28	ug/Kg	☼	01/15/14 16:25	01/21/14 06:00	50
p-Isopropyltoluene	<30		320	30	ug/Kg	☼	01/15/14 16:25	01/21/14 06:00	50
sec-Butylbenzene	<25		160	25	ug/Kg	☼	01/15/14 16:25	01/21/14 06:00	50
Styrene	<16		160	16	ug/Kg	☼	01/15/14 16:25	01/21/14 06:00	50
tert-Butylbenzene	<22		160	22	ug/Kg	☼	01/15/14 16:25	01/21/14 06:00	50
Tetrachloroethene	**1400**		160	27	ug/Kg	☼	01/15/14 16:25	01/21/14 06:00	50
Toluene	<19		40	19	ug/Kg	☼	01/15/14 16:25	01/21/14 06:00	50
trans-1,2-Dichloroethene	<40		160	40	ug/Kg	☼	01/15/14 16:25	01/21/14 06:00	50
trans-1,3-Dichloropropene	<34		160	34	ug/Kg	☼	01/15/14 16:25	01/21/14 06:00	50
Trichloroethene	**41**	**J**	81	30	ug/Kg	☼	01/15/14 16:25	01/21/14 06:00	50
Trichlorofluoromethane	<67		320	67	ug/Kg	☼	01/15/14 16:25	01/21/14 06:00	50
Vinyl chloride	<17		40	17	ug/Kg	☼	01/15/14 16:25	01/21/14 06:00	50
Xylenes, Total	<11		81	11	ug/Kg	☼	01/15/14 16:25	01/21/14 06:00	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*92*		*75 - 125*	*01/15/14 16:25*	*01/21/14 06:00*	*50*
4-Bromofluorobenzene (Surr)	*92*		*75 - 120*	*01/15/14 16:25*	*01/21/14 06:00*	*50*
Dibromofluoromethane	*102*		*75 - 120*	*01/15/14 16:25*	*01/21/14 06:00*	*50*
Toluene-d8 (Surr)	*106*		*75 - 120*	*01/15/14 16:25*	*01/21/14 06:00*	*50*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<5.9		17	5.9	ug/Kg	☼	01/17/14 07:08	01/21/14 15:39	1
PCB-1221	<7.4		17	7.4	ug/Kg	☼	01/17/14 07:08	01/21/14 15:39	1
PCB-1232	<7.3		17	7.3	ug/Kg	☼	01/17/14 07:08	01/21/14 15:39	1

Client Sample ID: B-190 (10-12)

Lab Sample ID: 500-70141-7

Date Collected: 01/15/14 16:25
Matrix: Solid
Date Received: 01/16/14 10:20
Percent Solids: 94.3

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1242	<5.5		17	5.5	ug/Kg	☼	01/17/14 07:08	01/21/14 15:39	1
PCB-1248	<6.6		17	6.6	ug/Kg	☼	01/17/14 07:08	01/21/14 15:39	1
PCB-1254	<3.6		17	3.6	ug/Kg	☼	01/17/14 07:08	01/21/14 15:39	1
PCB-1260	<8.2		17	8.2	ug/Kg	☼	01/17/14 07:08	01/21/14 15:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*68*		*50 - 116*	*01/17/14 07:08*	*01/21/14 15:39*	*1*
DCB Decachlorobiphenyl	*90*		*48 - 142*	*01/17/14 07:08*	*01/21/14 15:39*	*1*

Client Sample ID: B-190 (16-18)

Lab Sample ID: 500-70141-8

Date Collected: 01/15/14 16:30
Matrix: Solid
Date Received: 01/16/14 10:20
Percent Solids: 92.1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<49		280	49	ug/Kg	☼	01/15/14 16:30	01/21/14 06:24	50
1,1,1-Trichloroethane	<29		140	29	ug/Kg	☼	01/15/14 16:30	01/21/14 06:24	50
1,1,2,2-Tetrachloroethane	<33		140	33	ug/Kg	☼	01/15/14 16:30	01/21/14 06:24	50
1,1,2-Trichloroethane	<40		140	40	ug/Kg	☼	01/15/14 16:30	01/21/14 06:24	50
1,1-Dichloroethane	<26		140	26	ug/Kg	☼	01/15/14 16:30	01/21/14 06:24	50
1,1-Dichloroethene	<44		140	44	ug/Kg	☼	01/15/14 16:30	01/21/14 06:24	50
1,1-Dichloropropene	<49		140	49	ug/Kg	☼	01/15/14 16:30	01/21/14 06:24	50
1,2,3-Trichlorobenzene	<50		280	50	ug/Kg	☼	01/15/14 16:30	01/21/14 06:24	50
1,2,3-Trichloropropane	<81		280	81	ug/Kg	☼	01/15/14 16:30	01/21/14 06:24	50
1,2,4-Trichlorobenzene	<54		280	54	ug/Kg	☼	01/15/14 16:30	01/21/14 06:24	50
1,2,4-Trimethylbenzene	<30		280	30	ug/Kg	☼	01/15/14 16:30	01/21/14 06:24	50
1,2-Dibromo-3-Chloropropane	<120		280	120	ug/Kg	☼	01/15/14 16:30	01/21/14 06:24	50
1,2-Dibromoethane	<45		280	45	ug/Kg	☼	01/15/14 16:30	01/21/14 06:24	50
1,2-Dichlorobenzene	<29		280	29	ug/Kg	☼	01/15/14 16:30	01/21/14 06:24	50
1,2-Dichloroethane	<40		140	40	ug/Kg	☼	01/15/14 16:30	01/21/14 06:24	50
1,2-Dichloropropane	<28		140	28	ug/Kg	☼	01/15/14 16:30	01/21/14 06:24	50
1,3,5-Trimethylbenzene	<29		280	29	ug/Kg	☼	01/15/14 16:30	01/21/14 06:24	50
1,3-Dichlorobenzene	<36		280	36	ug/Kg	☼	01/15/14 16:30	01/21/14 06:24	50
1,3-Dichloropropane	<19		140	19	ug/Kg	☼	01/15/14 16:30	01/21/14 06:24	50
1,4-Dichlorobenzene	<25		280	25	ug/Kg	☼	01/15/14 16:30	01/21/14 06:24	50
2,2-Dichloropropane	<45		140	45	ug/Kg	☼	01/15/14 16:30	01/21/14 06:24	50
2-Chlorotoluene	<29		140	29	ug/Kg	☼	01/15/14 16:30	01/21/14 06:24	50
4-Chlorotoluene	<28		140	28	ug/Kg	☼	01/15/14 16:30	01/21/14 06:24	50
Benzene	<11		35	11	ug/Kg	☼	01/15/14 16:30	01/21/14 06:24	50
Bromobenzene	<60		280	60	ug/Kg	☼	01/15/14 16:30	01/21/14 06:24	50
Bromochloromethane	<54		280	54	ug/Kg	☼	01/15/14 16:30	01/21/14 06:24	50
Bromodichloromethane	<48		280	48	ug/Kg	☼	01/15/14 16:30	01/21/14 06:24	50
Bromoform	<63		280	63	ug/Kg	☼	01/15/14 16:30	01/21/14 06:24	50
Bromomethane	<97		280	97	ug/Kg	☼	01/15/14 16:30	01/21/14 06:24	50
Carbon tetrachloride	<36		140	36	ug/Kg	☼	01/15/14 16:30	01/21/14 06:24	50
Chlorobenzene	<20		140	20	ug/Kg	☼	01/15/14 16:30	01/21/14 06:24	50
Chloroethane	<62		280	62	ug/Kg	☼	01/15/14 16:30	01/21/14 06:24	50
Chloroform	<29		140	29	ug/Kg	☼	01/15/14 16:30	01/21/14 06:24	50
Chloromethane	<66		280	66	ug/Kg	☼	01/15/14 16:30	01/21/14 06:24	50
cis-1,2-Dichloroethene	<17		140	17	ug/Kg	☼	01/15/14 16:30	01/21/14 06:24	50

Client: ARCADIS U.S., Inc.
Project/Site: MadisonKipp WI001368.0012.00001

TestAmerica Job ID: 500-70141-1

Client Sample ID: B-190 (16-18)
Date Collected: 01/15/14 16:30
Date Received: 01/16/14 10:20

Lab Sample ID: 500-70141-8
Matrix: Solid
Percent Solids: 92.1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,3-Dichloropropene	<25		140	25	ug/Kg	☼	01/15/14 16:30	01/21/14 06:24	50
Dibromochloromethane	<49		280	49	ug/Kg	☼	01/15/14 16:30	01/21/14 06:24	50
Dibromomethane	<68		280	68	ug/Kg	☼	01/15/14 16:30	01/21/14 06:24	50
Dichlorodifluoromethane	<73		280	73	ug/Kg	☼	01/15/14 16:30	01/21/14 06:24	50
Ethylbenzene	<18		35	18	ug/Kg	☼	01/15/14 16:30	01/21/14 06:24	50
Hexachlorobutadiene	<49		280	49	ug/Kg	☼	01/15/14 16:30	01/21/14 06:24	50
Isopropyl ether	<21		280	21	ug/Kg	☼	01/15/14 16:30	01/21/14 06:24	50
Isopropylbenzene	<36		280	36	ug/Kg	☼	01/15/14 16:30	01/21/14 06:24	50
Methyl tert-butyl ether	<61		280	61	ug/Kg	☼	01/15/14 16:30	01/21/14 06:24	50
Methylene Chloride	<97		710	97	ug/Kg	☼	01/15/14 16:30	01/21/14 06:24	50
Naphthalene	<70		280	70	ug/Kg	☼	01/15/14 16:30	01/21/14 06:24	50
n-Butylbenzene	<18		140	18	ug/Kg	☼	01/15/14 16:30	01/21/14 06:24	50
N-Propylbenzene	<25		280	25	ug/Kg	☼	01/15/14 16:30	01/21/14 06:24	50
p-Isopropyltoluene	<26		280	26	ug/Kg	☼	01/15/14 16:30	01/21/14 06:24	50
sec-Butylbenzene	<22		140	22	ug/Kg	☼	01/15/14 16:30	01/21/14 06:24	50
Styrene	<14		140	14	ug/Kg	☼	01/15/14 16:30	01/21/14 06:24	50
tert-Butylbenzene	<19		140	19	ug/Kg	☼	01/15/14 16:30	01/21/14 06:24	50
Tetrachloroethene	**400**		140	24	ug/Kg	☼	01/15/14 16:30	01/21/14 06:24	50
Toluene	<16		35	16	ug/Kg	☼	01/15/14 16:30	01/21/14 06:24	50
trans-1,2-Dichloroethene	<35		140	35	ug/Kg	☼	01/15/14 16:30	01/21/14 06:24	50
trans-1,3-Dichloropropene	<30		140	30	ug/Kg	☼	01/15/14 16:30	01/21/14 06:24	50
Trichloroethene	<26		71	26	ug/Kg	☼	01/15/14 16:30	01/21/14 06:24	50
Trichlorofluoromethane	<59		280	59	ug/Kg	☼	01/15/14 16:30	01/21/14 06:24	50
Vinyl chloride	<15		35	15	ug/Kg	☼	01/15/14 16:30	01/21/14 06:24	50
Xylenes, Total	<9.7		71	9.7	ug/Kg	☼	01/15/14 16:30	01/21/14 06:24	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*95*		*75 - 125*	*01/15/14 16:30*	*01/21/14 06:24*	*50*
4-Bromofluorobenzene (Surr)	*92*		*75 - 120*	*01/15/14 16:30*	*01/21/14 06:24*	*50*
Dibromofluoromethane	*104*		*75 - 120*	*01/15/14 16:30*	*01/21/14 06:24*	*50*
Toluene-d8 (Surr)	*105*		*75 - 120*	*01/15/14 16:30*	*01/21/14 06:24*	*50*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<6.3		18	6.3	ug/Kg	☼	01/17/14 07:08	01/21/14 15:53	1
PCB-1221	<7.9		18	7.9	ug/Kg	☼	01/17/14 07:08	01/21/14 15:53	1
PCB-1232	<7.8		18	7.8	ug/Kg	☼	01/17/14 07:08	01/21/14 15:53	1
PCB-1242	<5.9		18	5.9	ug/Kg	☼	01/17/14 07:08	01/21/14 15:53	1
PCB-1248	<7.0		18	7.0	ug/Kg	☼	01/17/14 07:08	01/21/14 15:53	1
PCB-1254	<3.9		18	3.9	ug/Kg	☼	01/17/14 07:08	01/21/14 15:53	1
PCB-1260	<8.8		18	8.8	ug/Kg	☼	01/17/14 07:08	01/21/14 15:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*64*		*50 - 116*	*01/17/14 07:08*	*01/21/14 15:53*	*1*
DCB Decachlorobiphenyl	*91*		*48 - 142*	*01/17/14 07:08*	*01/21/14 15:53*	*1*

Client: ARCADIS U.S., Inc.
Project/Site: MadisonKipp WI001368.0012.00001

TestAmerica Job ID: 500-70141-1

Client Sample ID: B-192 (0-2)
Date Collected: 01/15/14 16:35
Date Received: 01/16/14 10:20

Lab Sample ID: 500-70141-9
Matrix: Solid
Percent Solids: 80.9

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<54		310	54	ug/Kg	☼	01/15/14 16:35	01/21/14 06:49	50
1,1,1-Trichloroethane	<31		160	31	ug/Kg	☼	01/15/14 16:35	01/21/14 06:49	50
1,1,2,2-Tetrachloroethane	<37		160	37	ug/Kg	☼	01/15/14 16:35	01/21/14 06:49	50
1,1,2-Trichloroethane	<44		160	44	ug/Kg	☼	01/15/14 16:35	01/21/14 06:49	50
1,1-Dichloroethane	<29		160	29	ug/Kg	☼	01/15/14 16:35	01/21/14 06:49	50
1,1-Dichloroethene	<48		160	48	ug/Kg	☼	01/15/14 16:35	01/21/14 06:49	50
1,1-Dichloropropene	<54		160	54	ug/Kg	☼	01/15/14 16:35	01/21/14 06:49	50
1,2,3-Trichlorobenzene	<55		310	55	ug/Kg	☼	01/15/14 16:35	01/21/14 06:49	50
1,2,3-Trichloropropane	<90		310	90	ug/Kg	☼	01/15/14 16:35	01/21/14 06:49	50
1,2,4-Trichlorobenzene	<59		310	59	ug/Kg	☼	01/15/14 16:35	01/21/14 06:49	50
1,2,4-Trimethylbenzene	<33		310	33	ug/Kg	☼	01/15/14 16:35	01/21/14 06:49	50
1,2-Dibromo-3-Chloropropane	<140		310	140	ug/Kg	☼	01/15/14 16:35	01/21/14 06:49	50
1,2-Dibromoethane	<49		310	49	ug/Kg	☼	01/15/14 16:35	01/21/14 06:49	50
1,2-Dichlorobenzene	<32		310	32	ug/Kg	☼	01/15/14 16:35	01/21/14 06:49	50
1,2-Dichloroethane	<45		160	45	ug/Kg	☼	01/15/14 16:35	01/21/14 06:49	50
1,2-Dichloropropane	<31		160	31	ug/Kg	☼	01/15/14 16:35	01/21/14 06:49	50
1,3,5-Trimethylbenzene	<32		310	32	ug/Kg	☼	01/15/14 16:35	01/21/14 06:49	50
1,3-Dichlorobenzene	<40		310	40	ug/Kg	☼	01/15/14 16:35	01/21/14 06:49	50
1,3-Dichloropropane	<21		160	21	ug/Kg	☼	01/15/14 16:35	01/21/14 06:49	50
1,4-Dichlorobenzene	<27		310	27	ug/Kg	☼	01/15/14 16:35	01/21/14 06:49	50
2,2-Dichloropropane	<50		160	50	ug/Kg	☼	01/15/14 16:35	01/21/14 06:49	50
2-Chlorotoluene	<32		160	32	ug/Kg	☼	01/15/14 16:35	01/21/14 06:49	50
4-Chlorotoluene	<31		160	31	ug/Kg	☼	01/15/14 16:35	01/21/14 06:49	50
Benzene	<12		39	12	ug/Kg	☼	01/15/14 16:35	01/21/14 06:49	50
Bromobenzene	<67		310	67	ug/Kg	☼	01/15/14 16:35	01/21/14 06:49	50
Bromochloromethane	<59		310	59	ug/Kg	☼	01/15/14 16:35	01/21/14 06:49	50
Bromodichloromethane	<53		310	53	ug/Kg	☼	01/15/14 16:35	01/21/14 06:49	50
Bromoform	<69		310	69	ug/Kg	☼	01/15/14 16:35	01/21/14 06:49	50
Bromomethane	<110		310	110	ug/Kg	☼	01/15/14 16:35	01/21/14 06:49	50
Carbon tetrachloride	<40		160	40	ug/Kg	☼	01/15/14 16:35	01/21/14 06:49	50
Chlorobenzene	<22		160	22	ug/Kg	☼	01/15/14 16:35	01/21/14 06:49	50
Chloroethane	<68		310	68	ug/Kg	☼	01/15/14 16:35	01/21/14 06:49	50
Chloroform	<32		160	32	ug/Kg	☼	01/15/14 16:35	01/21/14 06:49	50
Chloromethane	<72		310	72	ug/Kg	☼	01/15/14 16:35	01/21/14 06:49	50
cis-1,2-Dichloroethene	<19		160	19	ug/Kg	☼	01/15/14 16:35	01/21/14 06:49	50
cis-1,3-Dichloropropene	<28		160	28	ug/Kg	☼	01/15/14 16:35	01/21/14 06:49	50
Dibromochloromethane	<54		310	54	ug/Kg	☼	01/15/14 16:35	01/21/14 06:49	50
Dibromomethane	<75		310	75	ug/Kg	☼	01/15/14 16:35	01/21/14 06:49	50
Dichlorodifluoromethane	<80		310	80	ug/Kg	☼	01/15/14 16:35	01/21/14 06:49	50
Ethylbenzene	<20		39	20	ug/Kg	☼	01/15/14 16:35	01/21/14 06:49	50
Hexachlorobutadiene	<54		310	54	ug/Kg	☼	01/15/14 16:35	01/21/14 06:49	50
Isopropyl ether	<23		310	23	ug/Kg	☼	01/15/14 16:35	01/21/14 06:49	50
Isopropylbenzene	<39		310	39	ug/Kg	☼	01/15/14 16:35	01/21/14 06:49	50
Methyl tert-butyl ether	<67		310	67	ug/Kg	☼	01/15/14 16:35	01/21/14 06:49	50
Methylene Chloride	<110		780	110	ug/Kg	☼	01/15/14 16:35	01/21/14 06:49	50
Naphthalene	<77		310	77	ug/Kg	☼	01/15/14 16:35	01/21/14 06:49	50
n-Butylbenzene	<20		160	20	ug/Kg	☼	01/15/14 16:35	01/21/14 06:49	50
N-Propylbenzene	<27		310	27	ug/Kg	☼	01/15/14 16:35	01/21/14 06:49	50
p-Isopropyltoluene	<29		310	29	ug/Kg	☼	01/15/14 16:35	01/21/14 06:49	50

Client Sample ID: B-192 (0-2)

Lab Sample ID: 500-70141-9

Date Collected: 01/15/14 16:35
Matrix: Solid
Date Received: 01/16/14 10:20
Percent Solids: 80.9

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	<24		160	24	ug/Kg	☼	01/15/14 16:35	01/21/14 06:49	50
Styrene	<15		160	15	ug/Kg	☼	01/15/14 16:35	01/21/14 06:49	50
tert-Butylbenzene	<21		160	21	ug/Kg	☼	01/15/14 16:35	01/21/14 06:49	50
Tetrachloroethene	**220**		160	26	ug/Kg	☼	01/15/14 16:35	01/21/14 06:49	50
Toluene	<18		39	18	ug/Kg	☼	01/15/14 16:35	01/21/14 06:49	50
trans-1,2-Dichloroethene	<39		160	39	ug/Kg	☼	01/15/14 16:35	01/21/14 06:49	50
trans-1,3-Dichloropropene	<33		160	33	ug/Kg	☼	01/15/14 16:35	01/21/14 06:49	50
Trichloroethene	<29		78	29	ug/Kg	☼	01/15/14 16:35	01/21/14 06:49	50
Trichlorofluoromethane	<65		310	65	ug/Kg	☼	01/15/14 16:35	01/21/14 06:49	50
Vinyl chloride	<16		39	16	ug/Kg	☼	01/15/14 16:35	01/21/14 06:49	50
Xylenes, Total	<11		78	11	ug/Kg	☼	01/15/14 16:35	01/21/14 06:49	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*97*		*75 - 125*	*01/15/14 16:35*	*01/21/14 06:49*	*50*
4-Bromofluorobenzene (Surr)	*99*		*75 - 120*	*01/15/14 16:35*	*01/21/14 06:49*	*50*
Dibromofluoromethane	*104*		*75 - 120*	*01/15/14 16:35*	*01/21/14 06:49*	*50*
Toluene-d8 (Surr)	*107*		*75 - 120*	*01/15/14 16:35*	*01/21/14 06:49*	*50*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<1400		4000	1400	ug/Kg	☼	01/17/14 07:08	01/22/14 10:47	200
PCB-1221	<1800		4000	1800	ug/Kg	☼	01/17/14 07:08	01/22/14 10:47	200
PCB-1232	<1800		4000	1800	ug/Kg	☼	01/17/14 07:08	01/22/14 10:47	200
PCB-1242	**35000**		4000	1300	ug/Kg	☼	01/17/14 07:08	01/22/14 10:47	200
PCB-1248	<1600		4000	1600	ug/Kg	☼	01/17/14 07:08	01/22/14 10:47	200
PCB-1254	<870		4000	870	ug/Kg	☼	01/17/14 07:08	01/22/14 10:47	200
PCB-1260	<2000		4000	2000	ug/Kg	☼	01/17/14 07:08	01/22/14 10:47	200

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*0*	*D*	*50 - 116*	*01/17/14 07:08*	*01/22/14 10:47*	*200*
DCB Decachlorobiphenyl	*0*	*D*	*48 - 142*	*01/17/14 07:08*	*01/22/14 10:47*	*200*

Client Sample ID: B-192 (16-18)

Lab Sample ID: 500-70141-10

Date Collected: 01/15/14 16:40
Matrix: Solid
Date Received: 01/16/14 10:20
Percent Solids: 92.0

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<54		310	54	ug/Kg	☼	01/15/14 16:40	01/21/14 07:13	50
1,1,1-Trichloroethane	<32		160	32	ug/Kg	☼	01/15/14 16:40	01/21/14 07:13	50
1,1,2,2-Tetrachloroethane	<37		160	37	ug/Kg	☼	01/15/14 16:40	01/21/14 07:13	50
1,1,2-Trichloroethane	<44		160	44	ug/Kg	☼	01/15/14 16:40	01/21/14 07:13	50
1,1-Dichloroethane	<29		160	29	ug/Kg	☼	01/15/14 16:40	01/21/14 07:13	50
1,1-Dichloroethene	<48		160	48	ug/Kg	☼	01/15/14 16:40	01/21/14 07:13	50
1,1-Dichloropropene	<54		160	54	ug/Kg	☼	01/15/14 16:40	01/21/14 07:13	50
1,2,3-Trichlorobenzene	<55		310	55	ug/Kg	☼	01/15/14 16:40	01/21/14 07:13	50
1,2,3-Trichloropropane	<90		310	90	ug/Kg	☼	01/15/14 16:40	01/21/14 07:13	50
1,2,4-Trichlorobenzene	<60		310	60	ug/Kg	☼	01/15/14 16:40	01/21/14 07:13	50
1,2,4-Trimethylbenzene	<33		310	33	ug/Kg	☼	01/15/14 16:40	01/21/14 07:13	50
1,2-Dibromo-3-Chloropropane	<140		310	140	ug/Kg	☼	01/15/14 16:40	01/21/14 07:13	50

Client: ARCADIS U.S., Inc.
Project/Site: MadisonKipp WI001368.0012.00001

TestAmerica Job ID: 500-70141-1

Client Sample ID: B-192 (16-18)
Date Collected: 01/15/14 16:40
Date Received: 01/16/14 10:20

Lab Sample ID: 500-70141-10
Matrix: Solid
Percent Solids: 92.0

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane	<49		310	49	ug/Kg	☼	01/15/14 16:40	01/21/14 07:13	50
1,2-Dichlorobenzene	<32		310	32	ug/Kg	☼	01/15/14 16:40	01/21/14 07:13	50
1,2-Dichloroethane	<45		160	45	ug/Kg	☼	01/15/14 16:40	01/21/14 07:13	50
1,2-Dichloropropane	<31		160	31	ug/Kg	☼	01/15/14 16:40	01/21/14 07:13	50
1,3,5-Trimethylbenzene	<32		310	32	ug/Kg	☼	01/15/14 16:40	01/21/14 07:13	50
1,3-Dichlorobenzene	<40		310	40	ug/Kg	☼	01/15/14 16:40	01/21/14 07:13	50
1,3-Dichloropropane	<21		160	21	ug/Kg	☼	01/15/14 16:40	01/21/14 07:13	50
1,4-Dichlorobenzene	<27		310	27	ug/Kg	☼	01/15/14 16:40	01/21/14 07:13	50
2,2-Dichloropropane	<50		160	50	ug/Kg	☼	01/15/14 16:40	01/21/14 07:13	50
2-Chlorotoluene	<33		160	33	ug/Kg	☼	01/15/14 16:40	01/21/14 07:13	50
4-Chlorotoluene	<31		160	31	ug/Kg	☼	01/15/14 16:40	01/21/14 07:13	50
Benzene	<12		39	12	ug/Kg	☼	01/15/14 16:40	01/21/14 07:13	50
Bromobenzene	<67		310	67	ug/Kg	☼	01/15/14 16:40	01/21/14 07:13	50
Bromochloromethane	<60		310	60	ug/Kg	☼	01/15/14 16:40	01/21/14 07:13	50
Bromodichloromethane	<53		310	53	ug/Kg	☼	01/15/14 16:40	01/21/14 07:13	50
Bromoform	<69		310	69	ug/Kg	☼	01/15/14 16:40	01/21/14 07:13	50
Bromomethane	<110		310	110	ug/Kg	☼	01/15/14 16:40	01/21/14 07:13	50
Carbon tetrachloride	<40		160	40	ug/Kg	☼	01/15/14 16:40	01/21/14 07:13	50
Chlorobenzene	<23		160	23	ug/Kg	☼	01/15/14 16:40	01/21/14 07:13	50
Chloroethane	<69		310	69	ug/Kg	☼	01/15/14 16:40	01/21/14 07:13	50
Chloroform	<32		160	32	ug/Kg	☼	01/15/14 16:40	01/21/14 07:13	50
Chloromethane	<73		310	73	ug/Kg	☼	01/15/14 16:40	01/21/14 07:13	50
cis-1,2-Dichloroethene	<19		160	19	ug/Kg	☼	01/15/14 16:40	01/21/14 07:13	50
cis-1,3-Dichloropropene	<28		160	28	ug/Kg	☼	01/15/14 16:40	01/21/14 07:13	50
Dibromochloromethane	<54		310	54	ug/Kg	☼	01/15/14 16:40	01/21/14 07:13	50
Dibromomethane	<76		310	76	ug/Kg	☼	01/15/14 16:40	01/21/14 07:13	50
Dichlorodifluoromethane	<81		310	81	ug/Kg	☼	01/15/14 16:40	01/21/14 07:13	50
Ethylbenzene	<20		39	20	ug/Kg	☼	01/15/14 16:40	01/21/14 07:13	50
Hexachlorobutadiene	<54		310	54	ug/Kg	☼	01/15/14 16:40	01/21/14 07:13	50
Isopropyl ether	<23		310	23	ug/Kg	☼	01/15/14 16:40	01/21/14 07:13	50
Isopropylbenzene	<40		310	40	ug/Kg	☼	01/15/14 16:40	01/21/14 07:13	50
Methyl tert-butyl ether	<68		310	68	ug/Kg	☼	01/15/14 16:40	01/21/14 07:13	50
Methylene Chloride	<110		790	110	ug/Kg	☼	01/15/14 16:40	01/21/14 07:13	50
Naphthalene	<78		310	78	ug/Kg	☼	01/15/14 16:40	01/21/14 07:13	50
n-Butylbenzene	<20		160	20	ug/Kg	☼	01/15/14 16:40	01/21/14 07:13	50
N-Propylbenzene	<28		310	28	ug/Kg	☼	01/15/14 16:40	01/21/14 07:13	50
p-Isopropyltoluene	<29		310	29	ug/Kg	☼	01/15/14 16:40	01/21/14 07:13	50
sec-Butylbenzene	<24		160	24	ug/Kg	☼	01/15/14 16:40	01/21/14 07:13	50
Styrene	<16		160	16	ug/Kg	☼	01/15/14 16:40	01/21/14 07:13	50
tert-Butylbenzene	<21		160	21	ug/Kg	☼	01/15/14 16:40	01/21/14 07:13	50
Tetrachloroethene	**1200**		160	26	ug/Kg	☼	01/15/14 16:40	01/21/14 07:13	50
Toluene	<18		39	18	ug/Kg	☼	01/15/14 16:40	01/21/14 07:13	50
trans-1,2-Dichloroethene	<39		160	39	ug/Kg	☼	01/15/14 16:40	01/21/14 07:13	50
trans-1,3-Dichloropropene	<33		160	33	ug/Kg	☼	01/15/14 16:40	01/21/14 07:13	50
Trichloroethene	<29		79	29	ug/Kg	☼	01/15/14 16:40	01/21/14 07:13	50
Trichlorofluoromethane	<65		310	65	ug/Kg	☼	01/15/14 16:40	01/21/14 07:13	50
Vinyl chloride	<16		39	16	ug/Kg	☼	01/15/14 16:40	01/21/14 07:13	50
Xylenes, Total	<11		79	11	ug/Kg	☼	01/15/14 16:40	01/21/14 07:13	50

Client Sample ID: B-192 (16-18)

Lab Sample ID: 500-70141-10

Date Collected: 01/15/14 16:40
Matrix: Solid
Date Received: 01/16/14 10:20
Percent Solids: 92.0

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*93*		*75 - 125*	*01/15/14 16:40*	*01/21/14 07:13*	*50*
4-Bromofluorobenzene (Surr)	*91*		*75 - 120*	*01/15/14 16:40*	*01/21/14 07:13*	*50*
Dibromofluoromethane	*103*		*75 - 120*	*01/15/14 16:40*	*01/21/14 07:13*	*50*
Toluene-d8 (Surr)	*106*		*75 - 120*	*01/15/14 16:40*	*01/21/14 07:13*	*50*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<6.2		18	6.2	ug/Kg	☼	01/17/14 07:08	01/21/14 16:20	1
PCB-1221	<7.7		18	7.7	ug/Kg	☼	01/17/14 07:08	01/21/14 16:20	1
PCB-1232	<7.7		18	7.7	ug/Kg	☼	01/17/14 07:08	01/21/14 16:20	1
PCB-1242	<5.8		18	5.8	ug/Kg	☼	01/17/14 07:08	01/21/14 16:20	1
PCB-1248	<6.9		18	6.9	ug/Kg	☼	01/17/14 07:08	01/21/14 16:20	1
PCB-1254	<3.8		18	3.8	ug/Kg	☼	01/17/14 07:08	01/21/14 16:20	1
PCB-1260	<8.6		18	8.6	ug/Kg	☼	01/17/14 07:08	01/21/14 16:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*72*		*50 - 116*	*01/17/14 07:08*	*01/21/14 16:20*	*1*
DCB Decachlorobiphenyl	*87*		*48 - 142*	*01/17/14 07:08*	*01/21/14 16:20*	*1*

Client Sample ID: B-192 (10-12)

Lab Sample ID: 500-70141-11

Date Collected: 01/15/14 16:45
Matrix: Solid
Date Received: 01/16/14 10:20
Percent Solids: 92.8

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<62		360	62	ug/Kg	☼	01/15/14 16:45	01/21/14 18:43	50
1,1,1-Trichloroethane	<36		180	36	ug/Kg	☼	01/15/14 16:45	01/21/14 18:43	50
1,1,2,2-Tetrachloroethane	<42		180	42	ug/Kg	☼	01/15/14 16:45	01/21/14 18:43	50
1,1,2-Trichloroethane	<50		180	50	ug/Kg	☼	01/15/14 16:45	01/21/14 18:43	50
1,1-Dichloroethane	<33		180	33	ug/Kg	☼	01/15/14 16:45	01/21/14 18:43	50
1,1-Dichloroethene	<55		180	55	ug/Kg	☼	01/15/14 16:45	01/21/14 18:43	50
1,1-Dichloropropene	<61		180	61	ug/Kg	☼	01/15/14 16:45	01/21/14 18:43	50
1,2,3-Trichlorobenzene	<63		360	63	ug/Kg	☼	01/15/14 16:45	01/21/14 18:43	50
1,2,3-Trichloropropane	<100		360	100	ug/Kg	☼	01/15/14 16:45	01/21/14 18:43	50
1,2,4-Trichlorobenzene	<68		360	68	ug/Kg	☼	01/15/14 16:45	01/21/14 18:43	50
1,2,4-Trimethylbenzene	<38		360	38	ug/Kg	☼	01/15/14 16:45	01/21/14 18:43	50
1,2-Dibromo-3-Chloropropane	<160		360	160	ug/Kg	☼	01/15/14 16:45	01/21/14 18:43	50
1,2-Dibromoethane	<56		360	56	ug/Kg	☼	01/15/14 16:45	01/21/14 18:43	50
1,2-Dichlorobenzene	<37		360	37	ug/Kg	☼	01/15/14 16:45	01/21/14 18:43	50
1,2-Dichloroethane	<51		180	51	ug/Kg	☼	01/15/14 16:45	01/21/14 18:43	50
1,2-Dichloropropane	<35		180	35	ug/Kg	☼	01/15/14 16:45	01/21/14 18:43	50
1,3,5-Trimethylbenzene	<37		360	37	ug/Kg	☼	01/15/14 16:45	01/21/14 18:43	50
1,3-Dichlorobenzene	<46		360	46	ug/Kg	☼	01/15/14 16:45	01/21/14 18:43	50
1,3-Dichloropropane	<24		180	24	ug/Kg	☼	01/15/14 16:45	01/21/14 18:43	50
1,4-Dichlorobenzene	<31		360	31	ug/Kg	☼	01/15/14 16:45	01/21/14 18:43	50
2,2-Dichloropropane	<56		180	56	ug/Kg	☼	01/15/14 16:45	01/21/14 18:43	50
2-Chlorotoluene	<37		180	37	ug/Kg	☼	01/15/14 16:45	01/21/14 18:43	50
4-Chlorotoluene	<35		180	35	ug/Kg	☼	01/15/14 16:45	01/21/14 18:43	50
Benzene	<13		45	13	ug/Kg	☼	01/15/14 16:45	01/21/14 18:43	50
Bromobenzene	<76		360	76	ug/Kg	☼	01/15/14 16:45	01/21/14 18:43	50
Bromochloromethane	<68		360	68	ug/Kg	☼	01/15/14 16:45	01/21/14 18:43	50

Client: ARCADIS U.S., Inc.
Project/Site: MadisonKipp WI001368.0012.00001

TestAmerica Job ID: 500-70141-1

Client Sample ID: B-192 (10-12)
Date Collected: 01/15/14 16:45
Date Received: 01/16/14 10:20

Lab Sample ID: 500-70141-11
Matrix: Solid
Percent Solids: 92.8

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromodichloromethane	<60		360	60	ug/Kg	☼	01/15/14 16:45	01/21/14 18:43	50
Bromoform	<79		360	79	ug/Kg	☼	01/15/14 16:45	01/21/14 18:43	50
Bromomethane	<120		360	120	ug/Kg	☼	01/15/14 16:45	01/21/14 18:43	50
Carbon tetrachloride	<46		180	46	ug/Kg	☼	01/15/14 16:45	01/21/14 18:43	50
Chlorobenzene	<26		180	26	ug/Kg	☼	01/15/14 16:45	01/21/14 18:43	50
Chloroethane	<78		360	78	ug/Kg	☼	01/15/14 16:45	01/21/14 18:43	50
Chloroform	<37		180	37	ug/Kg	☼	01/15/14 16:45	01/21/14 18:43	50
Chloromethane	<83		360	83	ug/Kg	☼	01/15/14 16:45	01/21/14 18:43	50
cis-1,2-Dichloroethene	<22		180	22	ug/Kg	☼	01/15/14 16:45	01/21/14 18:43	50
cis-1,3-Dichloropropene	<32		180	32	ug/Kg	☼	01/15/14 16:45	01/21/14 18:43	50
Dibromochloromethane	<62		360	62	ug/Kg	☼	01/15/14 16:45	01/21/14 18:43	50
Dibromomethane	<86		360	86	ug/Kg	☼	01/15/14 16:45	01/21/14 18:43	50
Dichlorodifluoromethane	<92		360	92	ug/Kg	☼	01/15/14 16:45	01/21/14 18:43	50
Ethylbenzene	<23		45	23	ug/Kg	☼	01/15/14 16:45	01/21/14 18:43	50
Hexachlorobutadiene	<62		360	62	ug/Kg	☼	01/15/14 16:45	01/21/14 18:43	50
Isopropyl ether	<26		360	26	ug/Kg	☼	01/15/14 16:45	01/21/14 18:43	50
Isopropylbenzene	<45		360	45	ug/Kg	☼	01/15/14 16:45	01/21/14 18:43	50
Methyl tert-butyl ether	<77		360	77	ug/Kg	☼	01/15/14 16:45	01/21/14 18:43	50
Methylene Chloride	<120		890	120	ug/Kg	☼	01/15/14 16:45	01/21/14 18:43	50
Naphthalene	<88		360	88	ug/Kg	☼	01/15/14 16:45	01/21/14 18:43	50
n-Butylbenzene	<23		180	23	ug/Kg	☼	01/15/14 16:45	01/21/14 18:43	50
N-Propylbenzene	<31		360	31	ug/Kg	☼	01/15/14 16:45	01/21/14 18:43	50
p-Isopropyltoluene	<33		360	33	ug/Kg	☼	01/15/14 16:45	01/21/14 18:43	50
sec-Butylbenzene	<28		180	28	ug/Kg	☼	01/15/14 16:45	01/21/14 18:43	50
Styrene	<18		180	18	ug/Kg	☼	01/15/14 16:45	01/21/14 18:43	50
tert-Butylbenzene	<24		180	24	ug/Kg	☼	01/15/14 16:45	01/21/14 18:43	50
Tetrachloroethene	**200**		180	30	ug/Kg	☼	01/15/14 16:45	01/21/14 18:43	50
Toluene	<21		45	21	ug/Kg	☼	01/15/14 16:45	01/21/14 18:43	50
trans-1,2-Dichloroethene	<45		180	45	ug/Kg	☼	01/15/14 16:45	01/21/14 18:43	50
trans-1,3-Dichloropropene	<37		180	37	ug/Kg	☼	01/15/14 16:45	01/21/14 18:43	50
Trichloroethene	<33		89	33	ug/Kg	☼	01/15/14 16:45	01/21/14 18:43	50
Trichlorofluoromethane	<74		360	74	ug/Kg	☼	01/15/14 16:45	01/21/14 18:43	50
Vinyl chloride	<19		45	19	ug/Kg	☼	01/15/14 16:45	01/21/14 18:43	50
Xylenes, Total	<12		89	12	ug/Kg	☼	01/15/14 16:45	01/21/14 18:43	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*75 - 125*	*01/15/14 16:45*	*01/21/14 18:43*	*50*
4-Bromofluorobenzene (Surr)	*96*		*75 - 120*	*01/15/14 16:45*	*01/21/14 18:43*	*50*
Dibromofluoromethane	*109*		*75 - 120*	*01/15/14 16:45*	*01/21/14 18:43*	*50*
Toluene-d8 (Surr)	*106*		*75 - 120*	*01/15/14 16:45*	*01/21/14 18:43*	*50*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<6.2		17	6.2	ug/Kg	☼	01/17/14 07:08	01/21/14 16:33	1
PCB-1221	<7.7		17	7.7	ug/Kg	☼	01/17/14 07:08	01/21/14 16:33	1
PCB-1232	<7.6		17	7.6	ug/Kg	☼	01/17/14 07:08	01/21/14 16:33	1
PCB-1242	**15**	**J**	17	5.7	ug/Kg	☼	01/17/14 07:08	01/21/14 16:33	1
PCB-1248	<6.9		17	6.9	ug/Kg	☼	01/17/14 07:08	01/21/14 16:33	1
PCB-1254	<3.8		17	3.8	ug/Kg	☼	01/17/14 07:08	01/21/14 16:33	1
PCB-1260	<8.5		17	8.5	ug/Kg	☼	01/17/14 07:08	01/21/14 16:33	1

Client: ARCADIS U.S., Inc.
Project/Site: MadisonKipp WI001368.0012.00001

TestAmerica Job ID: 500-70141-1

Client Sample ID: B-192 (10-12)
Date Collected: 01/15/14 16:45
Date Received: 01/16/14 10:20

Lab Sample ID: 500-70141-11
Matrix: Solid
Percent Solids: 92.8

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	72		50 - 116	01/17/14 07:08	01/21/14 16:33	1
DCB Decachlorobiphenyl	85		48 - 142	01/17/14 07:08	01/21/14 16:33	1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC Semi VOA

Qualifier	Qualifier Description
D	Surrogate or matrix spike recoveries were not obtained because the extract was diluted for analysis; also compounds analyzed at a dilution may be flagged with a D.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
X	Surrogate is outside control limits

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

GC/MS VOA

Prep Batch: 220132

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-70141-1	B-136 (4-6)	Total/NA	Solid	5035	
500-70141-2	B-136 (10-12)	Total/NA	Solid	5035	
500-70141-3	B-189 (2-4)	Total/NA	Solid	5035	
500-70141-4	B-189 (16-18)	Total/NA	Solid	5035	
500-70141-5	B-189 (8-10)	Total/NA	Solid	5035	
500-70141-6 - DL	B-190 (0-2)	Total/NA	Solid	5035	
500-70141-6	B-190 (0-2)	Total/NA	Solid	5035	
500-70141-7	B-190 (10-12)	Total/NA	Solid	5035	
500-70141-8	B-190 (16-18)	Total/NA	Solid	5035	
500-70141-9	B-192 (0-2)	Total/NA	Solid	5035	
500-70141-10	B-192 (16-18)	Total/NA	Solid	5035	
500-70141-10 MS	B-192 (16-18)	Total/NA	Solid	5035	
500-70141-10 MSD	B-192 (16-18)	Total/NA	Solid	5035	
500-70141-11	B-192 (10-12)	Total/NA	Solid	5035	
LB3 500-220132/14-A	Method Blank	Total/NA	Solid	5035	
LCS 500-220132/15-A	Lab Control Sample	Total/NA	Solid	5035	

Analysis Batch: 220341

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-70141-1	B-136 (4-6)	Total/NA	Solid	8260B	220132
500-70141-2	B-136 (10-12)	Total/NA	Solid	8260B	220132
500-70141-3	B-189 (2-4)	Total/NA	Solid	8260B	220132
500-70141-4	B-189 (16-18)	Total/NA	Solid	8260B	220132
500-70141-5	B-189 (8-10)	Total/NA	Solid	8260B	220132
500-70141-6	B-190 (0-2)	Total/NA	Solid	8260B	220132
500-70141-6 - DL	B-190 (0-2)	Total/NA	Solid	8260B	220132
500-70141-7	B-190 (10-12)	Total/NA	Solid	8260B	220132
500-70141-8	B-190 (16-18)	Total/NA	Solid	8260B	220132
500-70141-9	B-192 (0-2)	Total/NA	Solid	8260B	220132
500-70141-10	B-192 (16-18)	Total/NA	Solid	8260B	220132
500-70141-10 MS	B-192 (16-18)	Total/NA	Solid	8260B	220132
500-70141-10 MSD	B-192 (16-18)	Total/NA	Solid	8260B	220132
LCS 500-220341/4	Lab Control Sample	Total/NA	Solid	8260B	
MB 500-220341/6	Method Blank	Total/NA	Solid	8260B	

Analysis Batch: 220388

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-70141-11	B-192 (10-12)	Total/NA	Solid	8260B	220132
LB3 500-220132/14-A	Method Blank	Total/NA	Solid	8260B	220132
LCS 500-220132/15-A	Lab Control Sample	Total/NA	Solid	8260B	220132
LCS 500-220388/4	Lab Control Sample	Total/NA	Solid	8260B	
MB 500-220388/6	Method Blank	Total/NA	Solid	8260B	

GC Semi VOA

Prep Batch: 220041

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-70141-1	B-136 (4-6)	Total/NA	Solid	3541	
500-70141-2	B-136 (10-12)	Total/NA	Solid	3541	
500-70141-2 MS	B-136 (10-12)	Total/NA	Solid	3541	

GC Semi VOA (Continued)

Prep Batch: 220041 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-70141-2 MSD	B-136 (10-12)	Total/NA	Solid	3541	
500-70141-3	B-189 (2-4)	Total/NA	Solid	3541	
500-70141-4	B-189 (16-18)	Total/NA	Solid	3541	
500-70141-5	B-189 (8-10)	Total/NA	Solid	3541	
500-70141-6	B-190 (0-2)	Total/NA	Solid	3541	
500-70141-7	B-190 (10-12)	Total/NA	Solid	3541	
500-70141-8	B-190 (16-18)	Total/NA	Solid	3541	
500-70141-9	B-192 (0-2)	Total/NA	Solid	3541	
500-70141-10	B-192 (16-18)	Total/NA	Solid	3541	
500-70141-11	B-192 (10-12)	Total/NA	Solid	3541	
LCS 500-220041/2-A	Lab Control Sample	Total/NA	Solid	3541	
MB 500-220041/1-A	Method Blank	Total/NA	Solid	3541	

Analysis Batch: 220438

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-70141-1	B-136 (4-6)	Total/NA	Solid	8082	220041
500-70141-2	B-136 (10-12)	Total/NA	Solid	8082	220041
500-70141-2 MS	B-136 (10-12)	Total/NA	Solid	8082	220041
500-70141-2 MSD	B-136 (10-12)	Total/NA	Solid	8082	220041
500-70141-3	B-189 (2-4)	Total/NA	Solid	8082	220041
500-70141-4	B-189 (16-18)	Total/NA	Solid	8082	220041
500-70141-5	B-189 (8-10)	Total/NA	Solid	8082	220041
500-70141-6	B-190 (0-2)	Total/NA	Solid	8082	220041
500-70141-7	B-190 (10-12)	Total/NA	Solid	8082	220041
500-70141-8	B-190 (16-18)	Total/NA	Solid	8082	220041
500-70141-9	B-192 (0-2)	Total/NA	Solid	8082	220041
500-70141-10	B-192 (16-18)	Total/NA	Solid	8082	220041
500-70141-11	B-192 (10-12)	Total/NA	Solid	8082	220041
LCS 500-220041/2-A	Lab Control Sample	Total/NA	Solid	8082	220041
MB 500-220041/1-A	Method Blank	Total/NA	Solid	8082	220041

General Chemistry

Analysis Batch: 219953

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-70141-1	B-136 (4-6)	Total/NA	Solid	Moisture	
500-70141-2	B-136 (10-12)	Total/NA	Solid	Moisture	
500-70141-3	B-189 (2-4)	Total/NA	Solid	Moisture	
500-70141-4	B-189 (16-18)	Total/NA	Solid	Moisture	
500-70141-5	B-189 (8-10)	Total/NA	Solid	Moisture	
500-70141-6	B-190 (0-2)	Total/NA	Solid	Moisture	
500-70141-7	B-190 (10-12)	Total/NA	Solid	Moisture	
500-70141-8	B-190 (16-18)	Total/NA	Solid	Moisture	
500-70141-9	B-192 (0-2)	Total/NA	Solid	Moisture	
500-70141-10	B-192 (16-18)	Total/NA	Solid	Moisture	
500-70141-11	B-192 (10-12)	Total/NA	Solid	Moisture	

Surrogate Summary

Client: ARCADIS U.S., Inc.
Project/Site: MadisonKipp WI001368.0012.00001

TestAmerica Job ID: 500-70141-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		12DCE	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(75-125)	(75-120)	(75-120)	(75-120)
500-70141-1	B-136 (4-6)	94	108	104	106
500-70141-2	B-136 (10-12)	94	102	101	106
500-70141-3	B-189 (2-4)	93	95	103	106
500-70141-4	B-189 (16-18)	93	92	102	106
500-70141-5	B-189 (8-10)	93	92	101	106
500-70141-6	B-190 (0-2)	93	100	101	104
500-70141-6 - DL	B-190 (0-2)	92	94	102	104
500-70141-7	B-190 (10-12)	92	92	102	106
500-70141-8	B-190 (16-18)	95	92	104	105
500-70141-9	B-192 (0-2)	97	99	104	107
500-70141-10	B-192 (16-18)	93	91	103	106
500-70141-10 MS	B-192 (16-18)	91	99	101	106
500-70141-10 MSD	B-192 (16-18)	93	97	103	105
500-70141-11	B-192 (10-12)	105	96	109	106
LB3 500-220132/14-A	Method Blank	103	94	109	106
LCS 500-220132/15-A	Lab Control Sample	97	104	104	105
LCS 500-220341/4	Lab Control Sample	91	102	101	107
LCS 500-220388/4	Lab Control Sample	91	101	101	106
MB 500-220341/6	Method Blank	95	97	104	107
MB 500-220388/6	Method Blank	97	95	105	106

Surrogate Legend

12DCE = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane
TOL = Toluene-d8 (Surr)

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		TCX1	DCB1
Lab Sample ID	Client Sample ID	(50-116)	(48-142)
500-70141-1	B-136 (4-6)	0 D	0 D
500-70141-2	B-136 (10-12)	0 D	0 D
500-70141-2 MS	B-136 (10-12)	0 D	0 D
500-70141-2 MSD	B-136 (10-12)	0 D	0 D
500-70141-3	B-189 (2-4)	68	88
500-70141-4	B-189 (16-18)	74	94
500-70141-5	B-189 (8-10)	80	94
500-70141-6	B-190 (0-2)	147 X	78
500-70141-7	B-190 (10-12)	68	90
500-70141-8	B-190 (16-18)	64	91
500-70141-9	B-192 (0-2)	0 D	0 D
500-70141-10	B-192 (16-18)	72	87
500-70141-11	B-192 (10-12)	72	85
LCS 500-220041/2-A	Lab Control Sample	81	95
MB 500-220041/1-A	Method Blank	81	94

Surrogate Legend

Surrogate Summary

Client: ARCADIS U.S., Inc.
Project/Site: MadisonKipp WI001368.0012.00001

TestAmerica Job ID: 500-70141-1

TCX = Tetrachloro-m-xylene
DCB = DCB Decachlorobiphenyl

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: LB3 500-220132/14-A
Matrix: Solid
Analysis Batch: 220388

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 220132

Analyte	LB3 Result	LB3 Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<17		100	17	ug/Kg		01/17/14 11:00	01/21/14 19:07	50
1,1,1-Trichloroethane	<10		50	10	ug/Kg		01/17/14 11:00	01/21/14 19:07	50
1,1,2,2-Tetrachloroethane	<12		50	12	ug/Kg		01/17/14 11:00	01/21/14 19:07	50
1,1,2-Trichloroethane	<14		50	14	ug/Kg		01/17/14 11:00	01/21/14 19:07	50
1,1-Dichloroethane	<9.3		50	9.3	ug/Kg		01/17/14 11:00	01/21/14 19:07	50
1,1-Dichloroethene	<15		50	15	ug/Kg		01/17/14 11:00	01/21/14 19:07	50
1,1-Dichloropropene	<17		50	17	ug/Kg		01/17/14 11:00	01/21/14 19:07	50
1,2,3-Trichlorobenzene	<18		100	18	ug/Kg		01/17/14 11:00	01/21/14 19:07	50
1,2,3-Trichloropropane	<29		100	29	ug/Kg		01/17/14 11:00	01/21/14 19:07	50
1,2,4-Trichlorobenzene	<19		100	19	ug/Kg		01/17/14 11:00	01/21/14 19:07	50
1,2,4-Trimethylbenzene	<11		100	11	ug/Kg		01/17/14 11:00	01/21/14 19:07	50
1,2-Dibromo-3-Chloropropane	<44		100	44	ug/Kg		01/17/14 11:00	01/21/14 19:07	50
1,2-Dibromoethane	<16		100	16	ug/Kg		01/17/14 11:00	01/21/14 19:07	50
1,2-Dichlorobenzene	<10		100	10	ug/Kg		01/17/14 11:00	01/21/14 19:07	50
1,2-Dichloroethane	<14		50	14	ug/Kg		01/17/14 11:00	01/21/14 19:07	50
1,2-Dichloropropane	<9.8		50	9.8	ug/Kg		01/17/14 11:00	01/21/14 19:07	50
1,3,5-Trimethylbenzene	<10		100	10	ug/Kg		01/17/14 11:00	01/21/14 19:07	50
1,3-Dichlorobenzene	<13		100	13	ug/Kg		01/17/14 11:00	01/21/14 19:07	50
1,3-Dichloropropane	<6.7		50	6.7	ug/Kg		01/17/14 11:00	01/21/14 19:07	50
1,4-Dichlorobenzene	<8.7		100	8.7	ug/Kg		01/17/14 11:00	01/21/14 19:07	50
2,2-Dichloropropane	<16		50	16	ug/Kg		01/17/14 11:00	01/21/14 19:07	50
2-Chlorotoluene	<10		50	10	ug/Kg		01/17/14 11:00	01/21/14 19:07	50
4-Chlorotoluene	<9.9		50	9.9	ug/Kg		01/17/14 11:00	01/21/14 19:07	50
Benzene	<3.7		13	3.7	ug/Kg		01/17/14 11:00	01/21/14 19:07	50
Bromobenzene	<21		100	21	ug/Kg		01/17/14 11:00	01/21/14 19:07	50
Bromochloromethane	<19		100	19	ug/Kg		01/17/14 11:00	01/21/14 19:07	50
Bromodichloromethane	<17		100	17	ug/Kg		01/17/14 11:00	01/21/14 19:07	50
Bromoform	<22		100	22	ug/Kg		01/17/14 11:00	01/21/14 19:07	50
Bromomethane	<34		100	34	ug/Kg		01/17/14 11:00	01/21/14 19:07	50
Carbon tetrachloride	<13		50	13	ug/Kg		01/17/14 11:00	01/21/14 19:07	50
Chlorobenzene	<7.2		50	7.2	ug/Kg		01/17/14 11:00	01/21/14 19:07	50
Chloroethane	<22		100	22	ug/Kg		01/17/14 11:00	01/21/14 19:07	50
Chloroform	<10		50	10	ug/Kg		01/17/14 11:00	01/21/14 19:07	50
Chloromethane	<23		100	23	ug/Kg		01/17/14 11:00	01/21/14 19:07	50
cis-1,2-Dichloroethene	<6.2		50	6.2	ug/Kg		01/17/14 11:00	01/21/14 19:07	50
cis-1,3-Dichloropropene	<8.9		50	8.9	ug/Kg		01/17/14 11:00	01/21/14 19:07	50
Dibromochloromethane	<17		100	17	ug/Kg		01/17/14 11:00	01/21/14 19:07	50
Dibromomethane	<24		100	24	ug/Kg		01/17/14 11:00	01/21/14 19:07	50
Dichlorodifluoromethane	<26		100	26	ug/Kg		01/17/14 11:00	01/21/14 19:07	50
Ethylbenzene	<6.3		13	6.3	ug/Kg		01/17/14 11:00	01/21/14 19:07	50
Hexachlorobutadiene	<17		100	17	ug/Kg		01/17/14 11:00	01/21/14 19:07	50
Isopropyl ether	<7.4		100	7.4	ug/Kg		01/17/14 11:00	01/21/14 19:07	50
Isopropylbenzene	<13		100	13	ug/Kg		01/17/14 11:00	01/21/14 19:07	50
Methyl tert-butyl ether	<22		100	22	ug/Kg		01/17/14 11:00	01/21/14 19:07	50
Methylene Chloride	<34		250	34	ug/Kg		01/17/14 11:00	01/21/14 19:07	50
Naphthalene	<25		100	25	ug/Kg		01/17/14 11:00	01/21/14 19:07	50
n-Butylbenzene	<6.5		50	6.5	ug/Kg		01/17/14 11:00	01/21/14 19:07	50
N-Propylbenzene	<8.8		100	8.8	ug/Kg		01/17/14 11:00	01/21/14 19:07	50

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LB3 500-220132/14-A
Matrix: Solid
Analysis Batch: 220388

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 220132

Analyte	LB3 Result	LB3 Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
p-Isopropyltoluene	<9.3		100	9.3	ug/Kg		01/17/14 11:00	01/21/14 19:07	50
sec-Butylbenzene	<7.7		50	7.7	ug/Kg		01/17/14 11:00	01/21/14 19:07	50
Styrene	<4.9		50	4.9	ug/Kg		01/17/14 11:00	01/21/14 19:07	50
tert-Butylbenzene	<6.8		50	6.8	ug/Kg		01/17/14 11:00	01/21/14 19:07	50
Tetrachloroethene	<8.4		50	8.4	ug/Kg		01/17/14 11:00	01/21/14 19:07	50
Toluene	<5.8		13	5.8	ug/Kg		01/17/14 11:00	01/21/14 19:07	50
trans-1,2-Dichloroethene	<13		50	13	ug/Kg		01/17/14 11:00	01/21/14 19:07	50
trans-1,3-Dichloropropene	<10		50	10	ug/Kg		01/17/14 11:00	01/21/14 19:07	50
Trichloroethene	<9.3		25	9.3	ug/Kg		01/17/14 11:00	01/21/14 19:07	50
Trichlorofluoromethane	<21		100	21	ug/Kg		01/17/14 11:00	01/21/14 19:07	50
Vinyl chloride	<5.2		13	5.2	ug/Kg		01/17/14 11:00	01/21/14 19:07	50
Xylenes, Total	<3.4		25	3.4	ug/Kg		01/17/14 11:00	01/21/14 19:07	50

Surrogate	*LB3 %Recovery*	*LB3 Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*75 - 125*	*01/17/14 11:00*	*01/21/14 19:07*	*50*
4-Bromofluorobenzene (Surr)	*94*		*75 - 120*	*01/17/14 11:00*	*01/21/14 19:07*	*50*
Dibromofluoromethane	*109*		*75 - 120*	*01/17/14 11:00*	*01/21/14 19:07*	*50*
Toluene-d8 (Surr)	*106*		*75 - 120*	*01/17/14 11:00*	*01/21/14 19:07*	*50*

Lab Sample ID: LCS 500-220132/15-A
Matrix: Solid
Analysis Batch: 220388

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 220132

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	2500	2490		ug/Kg		99	75 - 120
1,1,1-Trichloroethane	2500	2390		ug/Kg		95	70 - 123
1,1,2,2-Tetrachloroethane	2500	1950		ug/Kg		78	70 - 128
1,1,2-Trichloroethane	2500	2170		ug/Kg		87	69 - 120
1,1-Dichloroethane	2500	2270		ug/Kg		91	68 - 121
1,1-Dichloroethene	2500	2240		ug/Kg		90	58 - 122
1,1-Dichloropropene	2500	2330		ug/Kg		93	70 - 120
1,2,3-Trichlorobenzene	2500	2070		ug/Kg		83	56 - 137
1,2,3-Trichloropropane	2500	1850		ug/Kg		74	70 - 120
1,2,4-Trichlorobenzene	2500	2120		ug/Kg		85	65 - 121
1,2,4-Trimethylbenzene	2500	2510		ug/Kg		100	75 - 121
1,2-Dibromo-3-Chloropropane	2500	1700		ug/Kg		68	60 - 121
1,2-Dibromoethane	2500	2070		ug/Kg		83	70 - 120
1,2-Dichlorobenzene	2500	2260		ug/Kg		90	75 - 120
1,2-Dichloroethane	2500	2140		ug/Kg		85	69 - 120
1,2-Dichloropropane	2500	2220		ug/Kg		89	70 - 120
1,3,5-Trimethylbenzene	2500	2520		ug/Kg		101	75 - 123
1,3-Dichlorobenzene	2500	2320		ug/Kg		93	70 - 120
1,3-Dichloropropane	2500	2160		ug/Kg		86	70 - 120
1,4-Dichlorobenzene	2500	2230		ug/Kg		89	75 - 120
2,2-Dichloropropane	2500	2360		ug/Kg		94	67 - 125
2-Chlorotoluene	2500	2400		ug/Kg		96	70 - 120
4-Chlorotoluene	2500	2410		ug/Kg		97	70 - 120
Benzene	2500	2280		ug/Kg		91	70 - 120

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-220132/15-A
Matrix: Solid
Analysis Batch: 220388

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 220132

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Bromobenzene	2500	2310		ug/Kg		93	70 - 120
Bromochloromethane	2500	2300		ug/Kg		92	67 - 122
Bromodichloromethane	2500	2270		ug/Kg		91	70 - 120
Bromoform	2500	2080		ug/Kg		83	70 - 125
Bromomethane	2500	2180		ug/Kg		87	50 - 150
Carbon tetrachloride	2500	2560		ug/Kg		102	70 - 125
Chlorobenzene	2500	2350		ug/Kg		94	70 - 120
Chloroethane	2500	2300		ug/Kg		92	50 - 150
Chloroform	2500	2220		ug/Kg		89	70 - 120
Chloromethane	2500	1690		ug/Kg		68	50 - 134
cis-1,2-Dichloroethene	2500	2300		ug/Kg		92	70 - 120
cis-1,3-Dichloropropene	2500	2230		ug/Kg		89	70 - 120
Dibromochloromethane	2500	2260		ug/Kg		90	70 - 120
Dibromomethane	2500	2140		ug/Kg		85	70 - 120
Dichlorodifluoromethane	2500	1410		ug/Kg		56	40 - 140
Ethylbenzene	2500	2490		ug/Kg		100	75 - 120
Hexachlorobutadiene	2500	2460		ug/Kg		99	65 - 135
Isopropylbenzene	2500	2480		ug/Kg		99	70 - 120
Methyl tert-butyl ether	2500	1990		ug/Kg		80	58 - 122
Methylene Chloride	2500	2070		ug/Kg		83	65 - 125
Naphthalene	2500	1850		ug/Kg		74	55 - 132
n-Butylbenzene	2500	2350		ug/Kg		94	75 - 120
N-Propylbenzene	2500	2420		ug/Kg		97	70 - 120
p-Isopropyltoluene	2500	2530		ug/Kg		101	70 - 120
sec-Butylbenzene	2500	2480		ug/Kg		99	70 - 120
Styrene	2500	2480		ug/Kg		99	75 - 120
tert-Butylbenzene	2500	2540		ug/Kg		101	70 - 120
Tetrachloroethene	2500	2450		ug/Kg		98	70 - 123
Toluene	2500	2440		ug/Kg		98	70 - 120
trans-1,2-Dichloroethene	2500	2290		ug/Kg		92	70 - 124
trans-1,3-Dichloropropene	2500	2180		ug/Kg		87	70 - 120
Trichloroethene	2500	2390		ug/Kg		96	70 - 120
Trichlorofluoromethane	2500	2180		ug/Kg		87	63 - 134
Vinyl chloride	2500	1900		ug/Kg		76	62 - 138
Xylenes, Total	5000	4960		ug/Kg		99	70 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*97*		*75 - 125*
4-Bromofluorobenzene (Surr)	*104*		*75 - 120*
Dibromofluoromethane	*104*		*75 - 120*
Toluene-d8 (Surr)	*105*		*75 - 120*

Lab Sample ID: 500-70141-10 MS
Matrix: Solid
Analysis Batch: 220341

Client Sample ID: B-192 (16-18)
Prep Type: Total/NA
Prep Batch: 220132

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	<54		7870	8360		ug/Kg	☼	106	75 - 120

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 500-70141-10 MS
Matrix: Solid
Analysis Batch: 220341

Client Sample ID: B-192 (16-18)
Prep Type: Total/NA
Prep Batch: 220132

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	<32		7870	7860		ug/Kg	☼	100	70 - 123
1,1,2,2-Tetrachloroethane	<37		7870	7220		ug/Kg	☼	92	70 - 128
1,1,2-Trichloroethane	<44		7870	7420		ug/Kg	☼	94	69 - 120
1,1-Dichloroethane	<29		7870	7650		ug/Kg	☼	97	68 - 121
1,1-Dichloroethene	<48		7870	7400		ug/Kg	☼	94	58 - 122
1,1-Dichloropropene	<54		7870	7990		ug/Kg	☼	101	70 - 120
1,2,3-Trichlorobenzene	<55		7870	6940		ug/Kg	☼	88	56 - 137
1,2,3-Trichloropropane	<90		7870	5520		ug/Kg	☼	70	70 - 120
1,2,4-Trichlorobenzene	<60		7870	7140		ug/Kg	☼	91	65 - 121
1,2,4-Trimethylbenzene	<33		7870	9030		ug/Kg	☼	115	75 - 121
1,2-Dibromo-3-Chloropropane	<140		7870	6400		ug/Kg	☼	81	60 - 121
1,2-Dibromoethane	<49		7870	7220		ug/Kg	☼	92	70 - 120
1,2-Dichlorobenzene	<32		7870	8050		ug/Kg	☼	102	75 - 120
1,2-Dichloroethane	<45		7870	6930		ug/Kg	☼	88	69 - 120
1,2-Dichloropropane	<31		7870	7760		ug/Kg	☼	99	70 - 120
1,3,5-Trimethylbenzene	<32		7870	9120		ug/Kg	☼	116	75 - 123
1,3-Dichlorobenzene	<40		7870	8250		ug/Kg	☼	105	70 - 120
1,3-Dichloropropane	<21		7870	7480		ug/Kg	☼	95	70 - 120
1,4-Dichlorobenzene	<27		7870	7940		ug/Kg	☼	101	75 - 120
2,2-Dichloropropane	<50		7870	7690		ug/Kg	☼	98	67 - 125
2-Chlorotoluene	<33		7870	8760		ug/Kg	☼	111	70 - 120
4-Chlorotoluene	<31		7870	8590		ug/Kg	☼	109	70 - 120
Benzene	<12		7870	7890		ug/Kg	☼	100	70 - 120
Bromobenzene	<67		7870	8380		ug/Kg	☼	106	70 - 120
Bromochloromethane	<60		7870	7740		ug/Kg	☼	98	67 - 122
Bromodichloromethane	<53		7870	7650		ug/Kg	☼	97	70 - 120
Bromoform	<69		7870	7130		ug/Kg	☼	91	70 - 125
Bromomethane	<110		7870	8210		ug/Kg	☼	104	50 - 150
Carbon tetrachloride	<40		7870	8320		ug/Kg	☼	106	70 - 125
Chlorobenzene	<23		7870	8130		ug/Kg	☼	103	70 - 120
Chloroethane	<69		7870	8140		ug/Kg	☼	103	50 - 150
Chloroform	<32		7870	7470		ug/Kg	☼	95	70 - 120
Chloromethane	<73		7870	7700		ug/Kg	☼	98	50 - 134
cis-1,2-Dichloroethene	<19		7870	7900		ug/Kg	☼	100	70 - 120
cis-1,3-Dichloropropene	<28		7870	7590		ug/Kg	☼	96	70 - 120
Dibromochloromethane	<54		7870	7610		ug/Kg	☼	97	70 - 120
Dibromomethane	<76		7870	7200		ug/Kg	☼	91	70 - 120
Dichlorodifluoromethane	<81		7870	8720		ug/Kg	☼	111	40 - 140
Ethylbenzene	<20		7870	8780		ug/Kg	☼	111	75 - 120
Hexachlorobutadiene	<54		7870	8480		ug/Kg	☼	108	65 - 135
Isopropylbenzene	<40		7870	9130		ug/Kg	☼	116	70 - 120
Methyl tert-butyl ether	<68		7870	6550		ug/Kg	☼	83	58 - 122
Methylene Chloride	<110		7870	7110		ug/Kg	☼	90	65 - 125
Naphthalene	<78		7870	6620		ug/Kg	☼	84	55 - 132
n-Butylbenzene	<20		7870	8310		ug/Kg	☼	106	75 - 120
N-Propylbenzene	<28		7870	8870		ug/Kg	☼	113	70 - 120
p-Isopropyltoluene	<29		7870	8990		ug/Kg	☼	114	70 - 120
sec-Butylbenzene	<24		7870	9090		ug/Kg	☼	115	70 - 120

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 500-70141-10 MS
Matrix: Solid
Analysis Batch: 220341

Client Sample ID: B-192 (16-18)
Prep Type: Total/NA
Prep Batch: 220132

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Styrene	<16		7870	8660		ug/Kg	☼	110	75 - 120
tert-Butylbenzene	<21		7870	9350		ug/Kg	☼	119	70 - 120
Tetrachloroethene	1200		7870	9530		ug/Kg	☼	105	70 - 123
Toluene	<18		7870	8420		ug/Kg	☼	107	70 - 120
trans-1,2-Dichloroethene	<39		7870	7680		ug/Kg	☼	98	70 - 124
trans-1,3-Dichloropropene	<33		7870	7450		ug/Kg	☼	95	70 - 120
Trichloroethene	<29		7870	8280		ug/Kg	☼	105	70 - 120
Trichlorofluoromethane	<65		7870	7940		ug/Kg	☼	101	63 - 134
Vinyl chloride	<16		7870	8270		ug/Kg	☼	105	62 - 138
Xylenes, Total	<11		15700	17100		ug/Kg	☼	109	70 - 120

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*91*		*75 - 125*
4-Bromofluorobenzene (Surr)	*99*		*75 - 120*
Dibromofluoromethane	*101*		*75 - 120*
Toluene-d8 (Surr)	*106*		*75 - 120*

Lab Sample ID: 500-70141-10 MSD
Matrix: Solid
Analysis Batch: 220341

Client Sample ID: B-192 (16-18)
Prep Type: Total/NA
Prep Batch: 220132

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	<54		7870	8050		ug/Kg	☼	102	75 - 120	4	30
1,1,1-Trichloroethane	<32		7870	7430		ug/Kg	☼	94	70 - 123	6	30
1,1,2,2-Tetrachloroethane	<37		7870	7680		ug/Kg	☼	97	70 - 128	6	30
1,1,2-Trichloroethane	<44		7870	7470		ug/Kg	☼	95	69 - 120	1	30
1,1-Dichloroethane	<29		7870	7300		ug/Kg	☼	93	68 - 121	5	30
1,1-Dichloroethene	<48		7870	7000		ug/Kg	☼	89	58 - 122	6	30
1,1-Dichloropropene	<54		7870	7400		ug/Kg	☼	94	70 - 120	8	30
1,2,3-Trichlorobenzene	<55		7870	7040		ug/Kg	☼	89	56 - 137	2	30
1,2,3-Trichloropropane	<90		7870	5940		ug/Kg	☼	75	70 - 120	7	30
1,2,4-Trichlorobenzene	<60		7870	6720		ug/Kg	☼	85	65 - 121	6	30
1,2,4-Trimethylbenzene	<33		7870	8720		ug/Kg	☼	111	75 - 121	4	30
1,2-Dibromo-3-Chloropropane	<140		7870	6690		ug/Kg	☼	85	60 - 121	4	30
1,2-Dibromoethane	<49		7870	7240		ug/Kg	☼	92	70 - 120	0	30
1,2-Dichlorobenzene	<32		7870	8000		ug/Kg	☼	102	75 - 120	1	30
1,2-Dichloroethane	<45		7870	6640		ug/Kg	☼	84	69 - 120	4	30
1,2-Dichloropropane	<31		7870	7270		ug/Kg	☼	92	70 - 120	7	30
1,3,5-Trimethylbenzene	<32		7870	8830		ug/Kg	☼	112	75 - 123	3	30
1,3-Dichlorobenzene	<40		7870	7890		ug/Kg	☼	100	70 - 120	4	30
1,3-Dichloropropane	<21		7870	7370		ug/Kg	☼	94	70 - 120	1	30
1,4-Dichlorobenzene	<27		7870	7760		ug/Kg	☼	99	75 - 120	2	30
2,2-Dichloropropane	<50		7870	7350		ug/Kg	☼	93	67 - 125	5	30
2-Chlorotoluene	<33		7870	8610		ug/Kg	☼	109	70 - 120	2	30
4-Chlorotoluene	<31		7870	8420		ug/Kg	☼	107	70 - 120	2	30
Benzene	<12		7870	7490		ug/Kg	☼	95	70 - 120	5	30
Bromobenzene	<67		7870	8430		ug/Kg	☼	107	70 - 120	1	30
Bromochloromethane	<60		7870	7410		ug/Kg	☼	94	67 - 122	4	30

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 500-70141-10 MSD
Matrix: Solid
Analysis Batch: 220341

Client Sample ID: B-192 (16-18)
Prep Type: Total/NA
Prep Batch: 220132

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Bromodichloromethane	<53		7870	7370		ug/Kg	☼	94	70 - 120	4	30
Bromoform	<69		7870	7040		ug/Kg	☼	89	70 - 125	1	30
Bromomethane	<110		7870	7750		ug/Kg	☼	98	50 - 150	6	30
Carbon tetrachloride	<40		7870	7850		ug/Kg	☼	100	70 - 125	6	30
Chlorobenzene	<23		7870	7720		ug/Kg	☼	98	70 - 120	5	30
Chloroethane	<69		7870	8180		ug/Kg	☼	104	50 - 150	0	30
Chloroform	<32		7870	7060		ug/Kg	☼	90	70 - 120	6	30
Chloromethane	<73		7870	7480		ug/Kg	☼	95	50 - 134	3	30
cis-1,2-Dichloroethene	<19		7870	7520		ug/Kg	☼	96	70 - 120	5	30
cis-1,3-Dichloropropene	<28		7870	7400		ug/Kg	☼	94	70 - 120	3	30
Dibromochloromethane	<54		7870	7430		ug/Kg	☼	94	70 - 120	2	30
Dibromomethane	<76		7870	6840		ug/Kg	☼	87	70 - 120	5	30
Dichlorodifluoromethane	<81		7870	8520		ug/Kg	☼	108	40 - 140	2	30
Ethylbenzene	<20		7870	8150		ug/Kg	☼	103	75 - 120	7	30
Hexachlorobutadiene	<54		7870	7920		ug/Kg	☼	101	65 - 135	7	30
Isopropylbenzene	<40		7870	8990		ug/Kg	☼	114	70 - 120	2	30
Methyl tert-butyl ether	<68		7870	6460		ug/Kg	☼	82	58 - 122	1	30
Methylene Chloride	<110		7870	6710		ug/Kg	☼	85	65 - 125	6	30
Naphthalene	<78		7870	7130		ug/Kg	☼	91	55 - 132	7	30
n-Butylbenzene	<20		7870	7660		ug/Kg	☼	97	75 - 120	8	30
N-Propylbenzene	<28		7870	8530		ug/Kg	☼	108	70 - 120	4	30
p-Isopropyltoluene	<29		7870	8590		ug/Kg	☼	109	70 - 120	5	30
sec-Butylbenzene	<24		7870	8860		ug/Kg	☼	112	70 - 120	3	30
Styrene	<16		7870	8180		ug/Kg	☼	104	75 - 120	6	30
tert-Butylbenzene	<21		7870	9260		ug/Kg	☼	118	70 - 120	1	30
Tetrachloroethene	1200		7870	8800		ug/Kg	☼	96	70 - 123	8	30
Toluene	<18		7870	7930		ug/Kg	☼	101	70 - 120	6	30
trans-1,2-Dichloroethene	<39		7870	7240		ug/Kg	☼	92	70 - 124	6	30
trans-1,3-Dichloropropene	<33		7870	7300		ug/Kg	☼	93	70 - 120	2	30
Trichloroethene	<29		7870	7840		ug/Kg	☼	100	70 - 120	5	30
Trichlorofluoromethane	<65		7870	7810		ug/Kg	☼	99	63 - 134	2	30
Vinyl chloride	<16		7870	8010		ug/Kg	☼	102	62 - 138	3	30
Xylenes, Total	<11		15700	16000		ug/Kg	☼	101	70 - 120	7	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*93*		*75 - 125*
4-Bromofluorobenzene (Surr)	*97*		*75 - 120*
Dibromofluoromethane	*103*		*75 - 120*
Toluene-d8 (Surr)	*105*		*75 - 120*

Lab Sample ID: MB 500-220341/6
Matrix: Solid
Analysis Batch: 220341

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.35		2.0	0.35	ug/Kg			01/20/14 23:00	1
1,1,1-Trichloroethane	<0.20		1.0	0.20	ug/Kg			01/20/14 23:00	1
1,1,2,2-Tetrachloroethane	<0.23		1.0	0.23	ug/Kg			01/20/14 23:00	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-220341/6
Matrix: Solid
Analysis Batch: 220341

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloroethane	<0.28		1.0	0.28	ug/Kg			01/20/14 23:00	1
1,1-Dichloroethane	<0.19		1.0	0.19	ug/Kg			01/20/14 23:00	1
1,1-Dichloroethene	<0.31		1.0	0.31	ug/Kg			01/20/14 23:00	1
1,1-Dichloropropene	<0.34		1.0	0.34	ug/Kg			01/20/14 23:00	1
1,2,3-Trichlorobenzene	<0.35		2.0	0.35	ug/Kg			01/20/14 23:00	1
1,2,3-Trichloropropane	<0.57		2.0	0.57	ug/Kg			01/20/14 23:00	1
1,2,4-Trichlorobenzene	<0.38		2.0	0.38	ug/Kg			01/20/14 23:00	1
1,2,4-Trimethylbenzene	<0.21		2.0	0.21	ug/Kg			01/20/14 23:00	1
1,2-Dibromo-3-Chloropropane	<0.87		2.0	0.87	ug/Kg			01/20/14 23:00	1
1,2-Dibromoethane	<0.31		2.0	0.31	ug/Kg			01/20/14 23:00	1
1,2-Dichlorobenzene	<0.21		2.0	0.21	ug/Kg			01/20/14 23:00	1
1,2-Dichloroethane	<0.29		1.0	0.29	ug/Kg			01/20/14 23:00	1
1,2-Dichloropropane	<0.20		1.0	0.20	ug/Kg			01/20/14 23:00	1
1,3,5-Trimethylbenzene	<0.21		2.0	0.21	ug/Kg			01/20/14 23:00	1
1,3-Dichlorobenzene	<0.26		2.0	0.26	ug/Kg			01/20/14 23:00	1
1,3-Dichloropropane	<0.13		1.0	0.13	ug/Kg			01/20/14 23:00	1
1,4-Dichlorobenzene	<0.17		2.0	0.17	ug/Kg			01/20/14 23:00	1
2,2-Dichloropropane	<0.32		1.0	0.32	ug/Kg			01/20/14 23:00	1
2-Chlorotoluene	<0.21		1.0	0.21	ug/Kg			01/20/14 23:00	1
4-Chlorotoluene	<0.20		1.0	0.20	ug/Kg			01/20/14 23:00	1
Benzene	<0.074		0.25	0.074	ug/Kg			01/20/14 23:00	1
Bromobenzene	<0.43		2.0	0.43	ug/Kg			01/20/14 23:00	1
Bromochloromethane	<0.38		2.0	0.38	ug/Kg			01/20/14 23:00	1
Bromodichloromethane	<0.34		2.0	0.34	ug/Kg			01/20/14 23:00	1
Bromoform	<0.44		2.0	0.44	ug/Kg			01/20/14 23:00	1
Bromomethane	<0.68		2.0	0.68	ug/Kg			01/20/14 23:00	1
Carbon tetrachloride	<0.26		1.0	0.26	ug/Kg			01/20/14 23:00	1
Chlorobenzene	<0.14		1.0	0.14	ug/Kg			01/20/14 23:00	1
Chloroethane	<0.44		2.0	0.44	ug/Kg			01/20/14 23:00	1
Chloroform	<0.21		1.0	0.21	ug/Kg			01/20/14 23:00	1
Chloromethane	<0.46		2.0	0.46	ug/Kg			01/20/14 23:00	1
cis-1,2-Dichloroethene	<0.12		1.0	0.12	ug/Kg			01/20/14 23:00	1
cis-1,3-Dichloropropene	<0.18		1.0	0.18	ug/Kg			01/20/14 23:00	1
Dibromochloromethane	<0.35		2.0	0.35	ug/Kg			01/20/14 23:00	1
Dibromomethane	<0.48		2.0	0.48	ug/Kg			01/20/14 23:00	1
Dichlorodifluoromethane	<0.51		2.0	0.51	ug/Kg			01/20/14 23:00	1
Ethylbenzene	<0.13		0.25	0.13	ug/Kg			01/20/14 23:00	1
Hexachlorobutadiene	<0.35		2.0	0.35	ug/Kg			01/20/14 23:00	1
Isopropyl ether	<0.15		2.0	0.15	ug/Kg			01/20/14 23:00	1
Isopropylbenzene	<0.25		2.0	0.25	ug/Kg			01/20/14 23:00	1
Methyl tert-butyl ether	<0.43		2.0	0.43	ug/Kg			01/20/14 23:00	1
Methylene Chloride	<0.68		5.0	0.68	ug/Kg			01/20/14 23:00	1
Naphthalene	<0.49		2.0	0.49	ug/Kg			01/20/14 23:00	1
n-Butylbenzene	<0.13		1.0	0.13	ug/Kg			01/20/14 23:00	1
N-Propylbenzene	<0.18		2.0	0.18	ug/Kg			01/20/14 23:00	1
p-Isopropyltoluene	<0.19		2.0	0.19	ug/Kg			01/20/14 23:00	1
sec-Butylbenzene	<0.15		1.0	0.15	ug/Kg			01/20/14 23:00	1
Styrene	<0.099		1.0	0.099	ug/Kg			01/20/14 23:00	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-220341/6
Matrix: Solid
Analysis Batch: 220341

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
tert-Butylbenzene	<0.14		1.0	0.14	ug/Kg			01/20/14 23:00	1
Tetrachloroethene	<0.17		1.0	0.17	ug/Kg			01/20/14 23:00	1
Toluene	<0.12		0.25	0.12	ug/Kg			01/20/14 23:00	1
trans-1,2-Dichloroethene	<0.25		1.0	0.25	ug/Kg			01/20/14 23:00	1
trans-1,3-Dichloropropene	<0.21		1.0	0.21	ug/Kg			01/20/14 23:00	1
Trichloroethene	<0.19		0.50	0.19	ug/Kg			01/20/14 23:00	1
Trichlorofluoromethane	<0.42		2.0	0.42	ug/Kg			01/20/14 23:00	1
Vinyl chloride	<0.10		0.25	0.10	ug/Kg			01/20/14 23:00	1
Xylenes, Total	<0.068		0.50	0.068	ug/Kg			01/20/14 23:00	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*95*		*75 - 125*		*01/20/14 23:00*	*1*
4-Bromofluorobenzene (Surr)	*97*		*75 - 120*		*01/20/14 23:00*	*1*
Dibromofluoromethane	*104*		*75 - 120*		*01/20/14 23:00*	*1*
Toluene-d8 (Surr)	*107*		*75 - 120*		*01/20/14 23:00*	*1*

Lab Sample ID: LCS 500-220341/4
Matrix: Solid
Analysis Batch: 220341

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	50.0	50.9		ug/Kg		102	75 - 120
1,1,1-Trichloroethane	50.0	47.9		ug/Kg		96	70 - 123
1,1,2,2-Tetrachloroethane	50.0	46.3		ug/Kg		93	70 - 128
1,1,2-Trichloroethane	50.0	47.1		ug/Kg		94	69 - 120
1,1-Dichloroethane	50.0	47.2		ug/Kg		94	68 - 121
1,1-Dichloroethene	50.0	44.9		ug/Kg		90	58 - 122
1,1-Dichloropropene	50.0	48.7		ug/Kg		97	70 - 120
1,2,3-Trichlorobenzene	50.0	49.1		ug/Kg		98	56 - 137
1,2,3-Trichloropropane	50.0	46.9		ug/Kg		94	70 - 120
1,2,4-Trichlorobenzene	50.0	50.2		ug/Kg		100	65 - 121
1,2,4-Trimethylbenzene	50.0	55.7		ug/Kg		111	75 - 121
1,2-Dibromo-3-Chloropropane	50.0	43.0		ug/Kg		86	60 - 121
1,2-Dibromoethane	50.0	46.2		ug/Kg		92	70 - 120
1,2-Dichlorobenzene	50.0	49.8		ug/Kg		100	75 - 120
1,2-Dichloroethane	50.0	43.0		ug/Kg		86	69 - 120
1,2-Dichloropropane	50.0	48.7		ug/Kg		97	70 - 120
1,3,5-Trimethylbenzene	50.0	55.1		ug/Kg		110	75 - 123
1,3-Dichlorobenzene	50.0	51.0		ug/Kg		102	70 - 120
1,3-Dichloropropane	50.0	48.0		ug/Kg		96	70 - 120
1,4-Dichlorobenzene	50.0	49.6		ug/Kg		99	75 - 120
2,2-Dichloropropane	50.0	48.4		ug/Kg		97	67 - 125
2-Chlorotoluene	50.0	53.4		ug/Kg		107	70 - 120
4-Chlorotoluene	50.0	53.0		ug/Kg		106	70 - 120
Benzene	50.0	49.4		ug/Kg		99	70 - 120
Bromobenzene	50.0	51.0		ug/Kg		102	70 - 120
Bromochloromethane	50.0	47.8		ug/Kg		96	67 - 122
Bromodichloromethane	50.0	48.3		ug/Kg		97	70 - 120

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-220341/4
Matrix: Solid
Analysis Batch: 220341

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Bromoform	50.0	45.5		ug/Kg		91	70 - 125
Bromomethane	50.0	49.2		ug/Kg		98	50 - 150
Carbon tetrachloride	50.0	49.6		ug/Kg		99	70 - 125
Chlorobenzene	50.0	50.0		ug/Kg		100	70 - 120
Chloroethane	50.0	54.8		ug/Kg		110	50 - 150
Chloroform	50.0	46.2		ug/Kg		92	70 - 120
Chloromethane	50.0	46.7		ug/Kg		93	50 - 134
cis-1,2-Dichloroethene	50.0	50.4		ug/Kg		101	70 - 120
cis-1,3-Dichloropropene	50.0	50.4		ug/Kg		101	70 - 120
Dibromochloromethane	50.0	47.2		ug/Kg		94	70 - 120
Dibromomethane	50.0	44.4		ug/Kg		89	70 - 120
Dichlorodifluoromethane	50.0	52.8		ug/Kg		106	40 - 140
Ethylbenzene	50.0	53.2		ug/Kg		106	75 - 120
Hexachlorobutadiene	50.0	53.0		ug/Kg		106	65 - 135
Isopropylbenzene	50.0	54.8		ug/Kg		110	70 - 120
Methyl tert-butyl ether	50.0	46.0		ug/Kg		92	58 - 122
Methylene Chloride	50.0	44.1		ug/Kg		88	65 - 125
Naphthalene	50.0	48.7		ug/Kg		97	55 - 132
n-Butylbenzene	50.0	52.4		ug/Kg		105	75 - 120
N-Propylbenzene	50.0	53.7		ug/Kg		107	70 - 120
p-Isopropyltoluene	50.0	55.1		ug/Kg		110	70 - 120
sec-Butylbenzene	50.0	54.5		ug/Kg		109	70 - 120
Styrene	50.0	52.2		ug/Kg		104	75 - 120
tert-Butylbenzene	50.0	55.4		ug/Kg		111	70 - 120
Tetrachloroethene	50.0	49.3		ug/Kg		99	70 - 123
Toluene	50.0	52.4		ug/Kg		105	70 - 120
trans-1,2-Dichloroethene	50.0	48.0		ug/Kg		96	70 - 124
trans-1,3-Dichloropropene	50.0	47.9		ug/Kg		96	70 - 120
Trichloroethene	50.0	50.3		ug/Kg		101	70 - 120
Trichlorofluoromethane	50.0	47.7		ug/Kg		95	63 - 134
Vinyl chloride	50.0	50.8		ug/Kg		102	62 - 138
Xylenes, Total	100	105		ug/Kg		105	70 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*91*		*75 - 125*
4-Bromofluorobenzene (Surr)	*102*		*75 - 120*
Dibromofluoromethane	*101*		*75 - 120*
Toluene-d8 (Surr)	*107*		*75 - 120*

Lab Sample ID: MB 500-220388/6
Matrix: Solid
Analysis Batch: 220388

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.35		2.0	0.35	ug/Kg			01/21/14 10:31	1
1,1,1-Trichloroethane	<0.20		1.0	0.20	ug/Kg			01/21/14 10:31	1
1,1,2,2-Tetrachloroethane	<0.23		1.0	0.23	ug/Kg			01/21/14 10:31	1
1,1,2-Trichloroethane	<0.28		1.0	0.28	ug/Kg			01/21/14 10:31	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-220388/6
Matrix: Solid
Analysis Batch: 220388

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	<0.19		1.0	0.19	ug/Kg			01/21/14 10:31	1
1,1-Dichloroethene	<0.31		1.0	0.31	ug/Kg			01/21/14 10:31	1
1,1-Dichloropropene	<0.34		1.0	0.34	ug/Kg			01/21/14 10:31	1
1,2,3-Trichlorobenzene	<0.35		2.0	0.35	ug/Kg			01/21/14 10:31	1
1,2,3-Trichloropropane	<0.57		2.0	0.57	ug/Kg			01/21/14 10:31	1
1,2,4-Trichlorobenzene	<0.38		2.0	0.38	ug/Kg			01/21/14 10:31	1
1,2,4-Trimethylbenzene	<0.21		2.0	0.21	ug/Kg			01/21/14 10:31	1
1,2-Dibromo-3-Chloropropane	<0.87		2.0	0.87	ug/Kg			01/21/14 10:31	1
1,2-Dibromoethane	<0.31		2.0	0.31	ug/Kg			01/21/14 10:31	1
1,2-Dichlorobenzene	<0.21		2.0	0.21	ug/Kg			01/21/14 10:31	1
1,2-Dichloroethane	<0.29		1.0	0.29	ug/Kg			01/21/14 10:31	1
1,2-Dichloropropane	<0.20		1.0	0.20	ug/Kg			01/21/14 10:31	1
1,3,5-Trimethylbenzene	<0.21		2.0	0.21	ug/Kg			01/21/14 10:31	1
1,3-Dichlorobenzene	<0.26		2.0	0.26	ug/Kg			01/21/14 10:31	1
1,3-Dichloropropane	<0.13		1.0	0.13	ug/Kg			01/21/14 10:31	1
1,4-Dichlorobenzene	<0.17		2.0	0.17	ug/Kg			01/21/14 10:31	1
2,2-Dichloropropane	<0.32		1.0	0.32	ug/Kg			01/21/14 10:31	1
2-Chlorotoluene	<0.21		1.0	0.21	ug/Kg			01/21/14 10:31	1
4-Chlorotoluene	<0.20		1.0	0.20	ug/Kg			01/21/14 10:31	1
Benzene	<0.074		0.25	0.074	ug/Kg			01/21/14 10:31	1
Bromobenzene	<0.43		2.0	0.43	ug/Kg			01/21/14 10:31	1
Bromochloromethane	<0.38		2.0	0.38	ug/Kg			01/21/14 10:31	1
Bromodichloromethane	<0.34		2.0	0.34	ug/Kg			01/21/14 10:31	1
Bromoform	<0.44		2.0	0.44	ug/Kg			01/21/14 10:31	1
Bromomethane	<0.68		2.0	0.68	ug/Kg			01/21/14 10:31	1
Carbon tetrachloride	<0.26		1.0	0.26	ug/Kg			01/21/14 10:31	1
Chlorobenzene	<0.14		1.0	0.14	ug/Kg			01/21/14 10:31	1
Chloroethane	<0.44		2.0	0.44	ug/Kg			01/21/14 10:31	1
Chloroform	<0.21		1.0	0.21	ug/Kg			01/21/14 10:31	1
Chloromethane	<0.46		2.0	0.46	ug/Kg			01/21/14 10:31	1
cis-1,2-Dichloroethene	<0.12		1.0	0.12	ug/Kg			01/21/14 10:31	1
cis-1,3-Dichloropropene	<0.18		1.0	0.18	ug/Kg			01/21/14 10:31	1
Dibromochloromethane	<0.35		2.0	0.35	ug/Kg			01/21/14 10:31	1
Dibromomethane	<0.48		2.0	0.48	ug/Kg			01/21/14 10:31	1
Dichlorodifluoromethane	<0.51		2.0	0.51	ug/Kg			01/21/14 10:31	1
Ethylbenzene	<0.13		0.25	0.13	ug/Kg			01/21/14 10:31	1
Hexachlorobutadiene	<0.35		2.0	0.35	ug/Kg			01/21/14 10:31	1
Isopropyl ether	<0.15		2.0	0.15	ug/Kg			01/21/14 10:31	1
Isopropylbenzene	<0.25		2.0	0.25	ug/Kg			01/21/14 10:31	1
Methyl tert-butyl ether	<0.43		2.0	0.43	ug/Kg			01/21/14 10:31	1
Methylene Chloride	<0.68		5.0	0.68	ug/Kg			01/21/14 10:31	1
Naphthalene	<0.49		2.0	0.49	ug/Kg			01/21/14 10:31	1
n-Butylbenzene	<0.13		1.0	0.13	ug/Kg			01/21/14 10:31	1
N-Propylbenzene	<0.18		2.0	0.18	ug/Kg			01/21/14 10:31	1
p-Isopropyltoluene	<0.19		2.0	0.19	ug/Kg			01/21/14 10:31	1
sec-Butylbenzene	<0.15		1.0	0.15	ug/Kg			01/21/14 10:31	1
Styrene	<0.099		1.0	0.099	ug/Kg			01/21/14 10:31	1
tert-Butylbenzene	<0.14		1.0	0.14	ug/Kg			01/21/14 10:31	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-220388/6
Matrix: Solid
Analysis Batch: 220388

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	<0.17		1.0	0.17	ug/Kg			01/21/14 10:31	1
Toluene	<0.12		0.25	0.12	ug/Kg			01/21/14 10:31	1
trans-1,2-Dichloroethene	<0.25		1.0	0.25	ug/Kg			01/21/14 10:31	1
trans-1,3-Dichloropropene	<0.21		1.0	0.21	ug/Kg			01/21/14 10:31	1
Trichloroethene	<0.19		0.50	0.19	ug/Kg			01/21/14 10:31	1
Trichlorofluoromethane	<0.42		2.0	0.42	ug/Kg			01/21/14 10:31	1
Vinyl chloride	<0.10		0.25	0.10	ug/Kg			01/21/14 10:31	1
Xylenes, Total	<0.068		0.50	0.068	ug/Kg			01/21/14 10:31	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*97*		*75 - 125*		*01/21/14 10:31*	*1*
4-Bromofluorobenzene (Surr)	*95*		*75 - 120*		*01/21/14 10:31*	*1*
Dibromofluoromethane	*105*		*75 - 120*		*01/21/14 10:31*	*1*
Toluene-d8 (Surr)	*106*		*75 - 120*		*01/21/14 10:31*	*1*

Lab Sample ID: LCS 500-220388/4
Matrix: Solid
Analysis Batch: 220388

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	50.0	47.9		ug/Kg		96	75 - 120
1,1,1-Trichloroethane	50.0	45.1		ug/Kg		90	70 - 123
1,1,2,2-Tetrachloroethane	50.0	42.2		ug/Kg		84	70 - 128
1,1,2-Trichloroethane	50.0	43.6		ug/Kg		87	69 - 120
1,1-Dichloroethane	50.0	43.3		ug/Kg		87	68 - 121
1,1-Dichloroethene	50.0	41.6		ug/Kg		83	58 - 122
1,1-Dichloropropene	50.0	45.6		ug/Kg		91	70 - 120
1,2,3-Trichlorobenzene	50.0	42.8		ug/Kg		86	56 - 137
1,2,3-Trichloropropane	50.0	42.9		ug/Kg		86	70 - 120
1,2,4-Trichlorobenzene	50.0	44.9		ug/Kg		90	65 - 121
1,2,4-Trimethylbenzene	50.0	52.3		ug/Kg		105	75 - 121
1,2-Dibromo-3-Chloropropane	50.0	38.1		ug/Kg		76	60 - 121
1,2-Dibromoethane	50.0	41.9		ug/Kg		84	70 - 120
1,2-Dichlorobenzene	50.0	47.0		ug/Kg		94	75 - 120
1,2-Dichloroethane	50.0	39.7		ug/Kg		79	69 - 120
1,2-Dichloropropane	50.0	43.7		ug/Kg		87	70 - 120
1,3,5-Trimethylbenzene	50.0	52.4		ug/Kg		105	75 - 123
1,3-Dichlorobenzene	50.0	48.1		ug/Kg		96	70 - 120
1,3-Dichloropropane	50.0	43.7		ug/Kg		87	70 - 120
1,4-Dichlorobenzene	50.0	46.7		ug/Kg		93	75 - 120
2,2-Dichloropropane	50.0	46.3		ug/Kg		93	67 - 125
2-Chlorotoluene	50.0	50.4		ug/Kg		101	70 - 120
4-Chlorotoluene	50.0	50.7		ug/Kg		101	70 - 120
Benzene	50.0	45.7		ug/Kg		91	70 - 120
Bromobenzene	50.0	48.1		ug/Kg		96	70 - 120
Bromochloromethane	50.0	43.7		ug/Kg		87	67 - 122
Bromodichloromethane	50.0	44.2		ug/Kg		88	70 - 120
Bromoform	50.0	41.1		ug/Kg		82	70 - 125

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-220388/4
Matrix: Solid
Analysis Batch: 220388

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Bromomethane	50.0	44.6		ug/Kg		89	50 - 150
Carbon tetrachloride	50.0	48.2		ug/Kg		96	70 - 125
Chlorobenzene	50.0	47.2		ug/Kg		94	70 - 120
Chloroethane	50.0	46.6		ug/Kg		93	50 - 150
Chloroform	50.0	42.9		ug/Kg		86	70 - 120
Chloromethane	50.0	43.8		ug/Kg		88	50 - 134
cis-1,2-Dichloroethene	50.0	46.2		ug/Kg		92	70 - 120
cis-1,3-Dichloropropene	50.0	45.8		ug/Kg		92	70 - 120
Dibromochloromethane	50.0	44.2		ug/Kg		88	70 - 120
Dibromomethane	50.0	40.9		ug/Kg		82	70 - 120
Dichlorodifluoromethane	50.0	48.4		ug/Kg		97	40 - 140
Ethylbenzene	50.0	50.5		ug/Kg		101	75 - 120
Hexachlorobutadiene	50.0	50.1		ug/Kg		100	65 - 135
Isopropylbenzene	50.0	52.3		ug/Kg		105	70 - 120
Methyl tert-butyl ether	50.0	39.0		ug/Kg		78	58 - 122
Methylene Chloride	50.0	40.4		ug/Kg		81	65 - 125
Naphthalene	50.0	39.9		ug/Kg		80	55 - 132
n-Butylbenzene	50.0	50.2		ug/Kg		100	75 - 120
N-Propylbenzene	50.0	51.3		ug/Kg		103	70 - 120
p-Isopropyltoluene	50.0	52.7		ug/Kg		105	70 - 120
sec-Butylbenzene	50.0	51.7		ug/Kg		103	70 - 120
Styrene	50.0	50.2		ug/Kg		100	75 - 120
tert-Butylbenzene	50.0	53.0		ug/Kg		106	70 - 120
Tetrachloroethene	50.0	47.5		ug/Kg		95	70 - 123
Toluene	50.0	48.9		ug/Kg		98	70 - 120
trans-1,2-Dichloroethene	50.0	44.5		ug/Kg		89	70 - 124
trans-1,3-Dichloropropene	50.0	44.4		ug/Kg		89	70 - 120
Trichloroethene	50.0	47.8		ug/Kg		96	70 - 120
Trichlorofluoromethane	50.0	44.2		ug/Kg		88	63 - 134
Vinyl chloride	50.0	46.5		ug/Kg		93	62 - 138
Xylenes, Total	100	98.5		ug/Kg		99	70 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*91*		*75 - 125*
4-Bromofluorobenzene (Surr)	*101*		*75 - 120*
Dibromofluoromethane	*101*		*75 - 120*
Toluene-d8 (Surr)	*106*		*75 - 120*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 500-220041/1-A
Matrix: Solid
Analysis Batch: 220438

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 220041

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<5.9		17	5.9	ug/Kg		01/17/14 07:08	01/21/14 13:22	1
PCB-1221	<7.3		17	7.3	ug/Kg		01/17/14 07:08	01/21/14 13:22	1
PCB-1232	<7.3		17	7.3	ug/Kg		01/17/14 07:08	01/21/14 13:22	1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: MB 500-220041/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 220438 — **Prep Batch: 220041**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1242	<5.5		17	5.5	ug/Kg		01/17/14 07:08	01/21/14 13:22	1
PCB-1248	<6.6		17	6.6	ug/Kg		01/17/14 07:08	01/21/14 13:22	1
PCB-1254	<3.6		17	3.6	ug/Kg		01/17/14 07:08	01/21/14 13:22	1
PCB-1260	<8.2		17	8.2	ug/Kg		01/17/14 07:08	01/21/14 13:22	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*81*		*50 - 116*	*01/17/14 07:08*	*01/21/14 13:22*	*1*
DCB Decachlorobiphenyl	*94*		*48 - 142*	*01/17/14 07:08*	*01/21/14 13:22*	*1*

Lab Sample ID: LCS 500-220041/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 220438 — **Prep Batch: 220041**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
PCB-1016	167	166		ug/Kg		100	59 - 110
PCB-1260	167	174		ug/Kg		104	69 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene	*81*		*50 - 116*
DCB Decachlorobiphenyl	*95*		*48 - 142*

Lab Sample ID: 500-70141-2 MS — **Client Sample ID: B-136 (10-12)**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 220438 — **Prep Batch: 220041**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
PCB-1016	<310		167	<300		ug/Kg	☼	NC	59 - 110
PCB-1260	<430		167	<410		ug/Kg	☼	NC	69 - 120

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Tetrachloro-m-xylene	*0*	*D*	*50 - 116*
DCB Decachlorobiphenyl	*0*	*D*	*48 - 142*

Lab Sample ID: 500-70141-2 MSD — **Client Sample ID: B-136 (10-12)**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 220438 — **Prep Batch: 220041**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
PCB-1016	<310		166	<290		ug/Kg	☼	NC	59 - 110	NC	30
PCB-1260	<430		166	<410		ug/Kg	☼	NC	69 - 120	NC	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Tetrachloro-m-xylene	*0*	*D*	*50 - 116*
DCB Decachlorobiphenyl	*0*	*D*	*48 - 142*

Client Sample ID: B-136 (4-6)

Lab Sample ID: 500-70141-1

Date Collected: 01/15/14 15:55

Matrix: Solid

Date Received: 01/16/14 10:20

Percent Solids: 83.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			220132	01/15/14 15:55	WRE	TAL CHI
Total/NA	Analysis	8260B		50	220341	01/21/14 03:07	BDA	TAL CHI
Total/NA	Prep	3541			220041	01/17/14 07:08	STW	TAL CHI
Total/NA	Analysis	8082		50	220438	01/22/14 09:11	GMO	TAL CHI
Total/NA	Analysis	Moisture		1	219953	01/16/14 14:37	LWN	TAL CHI

Client Sample ID: B-136 (10-12)

Lab Sample ID: 500-70141-2

Date Collected: 01/15/14 16:00

Matrix: Solid

Date Received: 01/16/14 10:20

Percent Solids: 94.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			220132	01/15/14 16:00	WRE	TAL CHI
Total/NA	Analysis	8260B		50	220341	01/21/14 03:32	BDA	TAL CHI
Total/NA	Prep	3541			220041	01/17/14 07:08	STW	TAL CHI
Total/NA	Analysis	8082		50	220438	01/22/14 09:25	GMO	TAL CHI
Total/NA	Analysis	Moisture		1	219953	01/16/14 14:37	LWN	TAL CHI

Client Sample ID: B-189 (2-4)

Lab Sample ID: 500-70141-3

Date Collected: 01/15/14 16:05

Matrix: Solid

Date Received: 01/16/14 10:20

Percent Solids: 78.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			220132	01/15/14 16:05	WRE	TAL CHI
Total/NA	Analysis	8260B		50	220341	01/21/14 03:57	BDA	TAL CHI
Total/NA	Prep	3541			220041	01/17/14 07:08	STW	TAL CHI
Total/NA	Analysis	8082		1	220438	01/21/14 14:44	GMO	TAL CHI
Total/NA	Analysis	Moisture		1	219953	01/16/14 14:37	LWN	TAL CHI

Client Sample ID: B-189 (16-18)

Lab Sample ID: 500-70141-4

Date Collected: 01/15/14 16:10

Matrix: Solid

Date Received: 01/16/14 10:20

Percent Solids: 92.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			220132	01/15/14 16:10	WRE	TAL CHI
Total/NA	Analysis	8260B		50	220341	01/21/14 04:21	BDA	TAL CHI
Total/NA	Prep	3541			220041	01/17/14 07:08	STW	TAL CHI
Total/NA	Analysis	8082		1	220438	01/21/14 14:58	GMO	TAL CHI
Total/NA	Analysis	Moisture		1	219953	01/16/14 14:37	LWN	TAL CHI

Client Sample ID: B-189 (8-10)

Lab Sample ID: 500-70141-5

Date Collected: 01/15/14 16:15
Matrix: Solid
Date Received: 01/16/14 10:20
Percent Solids: 93.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			220132	01/15/14 16:15	WRE	TAL CHI
Total/NA	Analysis	8260B		50	220341	01/21/14 04:46	BDA	TAL CHI
Total/NA	Prep	3541			220041	01/17/14 07:08	STW	TAL CHI
Total/NA	Analysis	8082		1	220438	01/21/14 15:12	GMO	TAL CHI
Total/NA	Analysis	Moisture		1	219953	01/16/14 14:37	LWN	TAL CHI

Client Sample ID: B-190 (0-2)

Lab Sample ID: 500-70141-6

Date Collected: 01/15/14 16:20
Matrix: Solid
Date Received: 01/16/14 10:20
Percent Solids: 83.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			220132	01/15/14 16:20	WRE	TAL CHI
Total/NA	Analysis	8260B		500	220341	01/21/14 05:11	BDA	TAL CHI
Total/NA	Prep	5035	DL		220132	01/15/14 16:20	WRE	TAL CHI
Total/NA	Analysis	8260B	DL	5000	220341	01/21/14 05:35	BDA	TAL CHI
Total/NA	Prep	3541			220041	01/17/14 07:08	STW	TAL CHI
Total/NA	Analysis	8082		1	220438	01/21/14 15:25	GMO	TAL CHI
Total/NA	Analysis	Moisture		1	219953	01/16/14 14:37	LWN	TAL CHI

Client Sample ID: B-190 (10-12)

Lab Sample ID: 500-70141-7

Date Collected: 01/15/14 16:25
Matrix: Solid
Date Received: 01/16/14 10:20
Percent Solids: 94.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			220132	01/15/14 16:25	WRE	TAL CHI
Total/NA	Analysis	8260B		50	220341	01/21/14 06:00	BDA	TAL CHI
Total/NA	Prep	3541			220041	01/17/14 07:08	STW	TAL CHI
Total/NA	Analysis	8082		1	220438	01/21/14 15:39	GMO	TAL CHI
Total/NA	Analysis	Moisture		1	219953	01/16/14 14:37	LWN	TAL CHI

Client Sample ID: B-190 (16-18)

Lab Sample ID: 500-70141-8

Date Collected: 01/15/14 16:30
Matrix: Solid
Date Received: 01/16/14 10:20
Percent Solids: 92.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			220132	01/15/14 16:30	WRE	TAL CHI
Total/NA	Analysis	8260B		50	220341	01/21/14 06:24	BDA	TAL CHI
Total/NA	Prep	3541			220041	01/17/14 07:08	STW	TAL CHI
Total/NA	Analysis	8082		1	220438	01/21/14 15:53	GMO	TAL CHI
Total/NA	Analysis	Moisture		1	219953	01/16/14 14:37	LWN	TAL CHI

Lab Chronicle

Client: ARCADIS U.S., Inc.
Project/Site: MadisonKipp WI001368.0012.00001

TestAmerica Job ID: 500-70141-1

Client Sample ID: B-192 (0-2)

Lab Sample ID: 500-70141-9

Date Collected: 01/15/14 16:35
Matrix: Solid
Date Received: 01/16/14 10:20
Percent Solids: 80.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			220132	01/15/14 16:35	WRE	TAL CHI
Total/NA	Analysis	8260B		50	220341	01/21/14 06:49	BDA	TAL CHI
Total/NA	Prep	3541			220041	01/17/14 07:08	STW	TAL CHI
Total/NA	Analysis	8082		200	220438	01/22/14 10:47	GMO	TAL CHI
Total/NA	Analysis	Moisture		1	219953	01/16/14 14:37	LWN	TAL CHI

Client Sample ID: B-192 (16-18)

Lab Sample ID: 500-70141-10

Date Collected: 01/15/14 16:40
Matrix: Solid
Date Received: 01/16/14 10:20
Percent Solids: 92.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			220132	01/15/14 16:40	WRE	TAL CHI
Total/NA	Analysis	8260B		50	220341	01/21/14 07:13	BDA	TAL CHI
Total/NA	Prep	3541			220041	01/17/14 07:08	STW	TAL CHI
Total/NA	Analysis	8082		1	220438	01/21/14 16:20	GMO	TAL CHI
Total/NA	Analysis	Moisture		1	219953	01/16/14 14:37	LWN	TAL CHI

Client Sample ID: B-192 (10-12)

Lab Sample ID: 500-70141-11

Date Collected: 01/15/14 16:45
Matrix: Solid
Date Received: 01/16/14 10:20
Percent Solids: 92.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			220132	01/15/14 16:45	WRE	TAL CHI
Total/NA	Analysis	8260B		50	220388	01/21/14 18:43	BDA	TAL CHI
Total/NA	Prep	3541			220041	01/17/14 07:08	STW	TAL CHI
Total/NA	Analysis	8082		1	220438	01/21/14 16:33	GMO	TAL CHI
Total/NA	Analysis	Moisture		1	219953	01/16/14 14:37	LWN	TAL CHI

Laboratory References:

TAL CHI = TestAmerica Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Certification Summary

Client: ARCADIS U.S., Inc.
Project/Site: MadisonKipp WI001368.0012.00001

TestAmerica Job ID: 500-70141-1

Laboratory: TestAmerica Chicago

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Alabama	State Program	4	40461	04-30-14
California	NELAP	9	01132CA	04-30-14
Georgia	State Program	4	N/A	04-30-14
Hawaii	State Program	9	N/A	04-30-14
Illinois	NELAP	5	100201	04-30-14
Indiana	State Program	5	C-IL-02	04-30-14
Iowa	State Program	7	82	05-01-14
Kansas	NELAP	7	E-10161	10-31-14
Kentucky (UST)	State Program	4	66	04-30-14
Louisiana	NELAP	6	30720	06-30-14
Massachusetts	State Program	1	M-IL035	06-30-14
Mississippi	State Program	4	N/A	04-30-14
North Carolina DENR	State Program	4	291	12-31-14
North Dakota	State Program	8	R-194	04-30-14
Oklahoma	State Program	6	8908	08-31-14
South Carolina	State Program	4	77001	04-30-14
Texas	NELAP	6	T104704252-09-TX	02-28-14
USDA	Federal		P330-12-00038	02-06-15
Wisconsin	State Program	5	999580010	08-31-14
Wyoming	State Program	8	8TMS-Q	04-30-14

ARCADIS
Infrastructure · Water · Environment · Buildings

ID#:

CHAIN OF CUSTODY & LABORATORY ANALYSIS REQUEST FORM

Page ___ of ___

Lab Work Order #: 500-70141

Send Results to:

Contact & Company Name: Tori Schoen, ARCADIS	Telephone: 414-276-7742
Address: 126 N. Jefferson #400	Fax: 414-276-7603
City: Milwaukee State: WI Zip: 53202	E-mail Address: Tori.Schoen@ARCADIS-US.com
Project Name/Location (City, State): Madison-KIAP	Project #: WI001368.0012.00001
Sampler's Printed Name: Bryan Ernst	Sampler's Signature:

Preservative	E	F					
Filtered (✓)	No	No					
# of Containers	1	2					
Container Information	7	1					

PARAMETER ANALYSIS & METHOD

	Sample ID	Collection Date	Collection Time	Type (✓) Comp	Type (✓) Grab	Matrix	PCBs Method 8082	VOCs Method 8260B
1	B-136 (4-6)	1/15/14	1555		X	SO	1	1
2	B-136 (10-12)		1600		X		1	1
3	B-189 (2-4)		1605		X		1	1
4	B-189 (16-18)		1610		X		1	1
5	B-189 (8-10)		1615		X		1	1
6	B-190 (0-2)		1620		X		1	1
7	B-190 (10-12)		1625		X		1	1
8	B-190 (16-18)		1630		X		1	1
9	B-192 (0-2)		1635		X		1	1
10	B-192 (16-18)		1640		X		1	1
11	B-192 (10-12)		1645		X		1	1

500-70141 COC

Keys

Preservation Key:
A. H_2SO_4
B. HCL
C. HNO_3
D. NaOH
E. None
F. Other: MeOH
G. Other: _____
H. Other: _____

Container Information Key:
1. 40 ml Vial
2. 1 L Amber
3. 250 ml Plastic
4. 500 ml Plastic
5. Encore
6. 2 oz. Glass
7. 4 oz. Glass
8. 8 oz. Glass
9. Other: _____
10. Other: _____

Matrix Key:
SO - Soil
W - Water
T - Tissue
SE - Sediment
SL - Sludge
A - Air
NL - NAPL/Oil
SW - Sample Wipe
Other: _____

REMARKS

Special Instructions/Comments:

☐ Special QA/QC Instructions(✓):

Laboratory Information and Receipt		Relinquished By	Received By	Relinquished By	Laboratory Received By
Lab Name: Test America	Cooler Custody Seal (✓)	Printed Name: Bryan Ernst	Printed Name:	Printed Name:	Printed Name: Sherri Scott
☒ Cooler packed with Ice (✓)	☐ Intact ☐ Not Intact	Signature:	Signature:	Signature:	Signature:
Specify Turnaround Requirements: Standard	Sample Receipt:	Firm: ARCADIS	Firm/Courier:	Firm/Courier:	Firm: TA-CHI
Shipping Tracking #:	Condition/Cooler Temp: 4.3	Date/Time: 1/15/14 @ 1800	Date/Time:	Date/Time:	Date/Time: 1/16/14 1020

20730826 CofC AR Form 01.12.2007

Distribution: WHITE – Laboratory returns with results YELLOW – Lab copy PINK – Retained by ARCADIS

Login Sample Receipt Checklist

Client: ARCADIS U.S., Inc.

Job Number: 500-70141-1

Login Number: 70141

List Source: TestAmerica Chicago

List Number: 1

Creator: Scott, Sherri L

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	4.3
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Chicago
2417 Bond Street
University Park, IL 60484
Tel: (708)534-5200

TestAmerica Job ID: 500-72448-1
Client Project/Site: MadisonKipp - WI001368.0012.00001

For:
ARCADIS U.S., Inc.
126 North Jefferson Street
Suite 400
Milwaukee, Wisconsin 53202

Attn: Ms. Toni Schoen

Authorized for release by:
3/6/2014 2:26:27 PM

Sandie Fredrick, Project Manager II
(920)261-1660
sandie.fredrick@testamericainc.com

Table of Contents

Job ID: 500-72448-1

Laboratory: TestAmerica Chicago

Narrative

Job Narrative
500-72448-1

Comments
No additional comments.

Receipt
The samples were received on 3/1/2014 9:25 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.9º C.

GC/MS VOA
Method(s) 5035: extract vial has < 8 grams of soil in 10 ml methanol. B-193 (0-2) (500-72448-4), B-193 (12-14) (500-72448-5), B-193 (18-20) (500-72448-6), B-194 (20-21) (500-72448-3), B-194 (2-4) (500-72448-1), B-194 (8-10) (500-72448-2), B-195 (0-2) (500-72448-7), B-195 (10-12) (500-72448-8), B-195 (18-20) (500-72448-9).

Method(s) 8260B: The laboratory control sample (LCS) for the analytical batch 225738 recovered outside control limits for the following analytes:1,2,3-Trichlorobenzene, 1,2,4-Trichlorobenzene and Naphthalene. These analytes were biased high in the LCS and were not detected in the associated samples. The laboratory control sample (LCS) for prep batch 225543 recovered outside control limits for the following analytes:Chloroethane, Dichlorodifluoromethane and Vinyl Chloride.

No other analytical or quality issues were noted.

GC Semi VOA
Method(s) 8082: The following sample(s) was diluted to bring the concentration of target analytes within the calibration range: B-193 (12-14) (500-72448-5). Elevated reporting limits (RLs) are provided.

Method(s) 8082: Surrogate recovery for the following sample was outside control limits: B-193 (0-2) (500-72448-4). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

No other analytical or quality issues were noted.

Metals
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: ARCADIS U.S., Inc.
Project/Site: MadisonKipp - WI001368.0012.00001

TestAmerica Job ID: 500-72448-1

Client Sample ID: B-194 (2-4) — Lab Sample ID: 500-72448-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	55	J	110	18	ug/Kg	50	☼	8260B	Total/NA
Toluene	30		27	13	ug/Kg	50	☼	8260B	Total/NA

Client Sample ID: B-194 (8-10) — Lab Sample ID: 500-72448-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1242	180		17	5.6	ug/Kg	1	☼	8082	Total/NA

Client Sample ID: B-194 (20-21) — Lab Sample ID: 500-72448-3

No Detections.

Client Sample ID: B-193 (0-2) — Lab Sample ID: 500-72448-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	150		110	18	ug/Kg	50	☼	8260B	Total/NA
PCB-1242	17	J	20	6.5	ug/Kg	1	☼	8082	Total/NA

Client Sample ID: B-193 (12-14) — Lab Sample ID: 500-72448-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	71	J	92	15	ug/Kg	50	☼	8260B	Total/NA
PCB-1248	750		89	35	ug/Kg	5	☼	8082	Total/NA

Client Sample ID: B-193 (18-20) — Lab Sample ID: 500-72448-6

No Detections.

Client Sample ID: B-195 (0-2) — Lab Sample ID: 500-72448-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	110		100	17	ug/Kg	50	☼	8260B	Total/NA
PCB-1248	45		20	7.9	ug/Kg	1	☼	8082	Total/NA

Client Sample ID: B-195 (10-12) — Lab Sample ID: 500-72448-8

No Detections.

Client Sample ID: B-195 (18-20) — Lab Sample ID: 500-72448-9

No Detections.

Client Sample ID: Trip Blank — Lab Sample ID: 500-72448-10

No Detections.

This Detection Summary does not include radiochemical test results.

Method Summary

Client: ARCADIS U.S., Inc.
Project/Site: MadisonKipp - WI001368.0012.00001

TestAmerica Job ID: 500-72448-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL CHI
8082	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL CHI
Moisture	Percent Moisture	EPA	TAL CHI

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL CHI = TestAmerica Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Sample Summary

Client: ARCADIS U.S., Inc.
Project/Site: MadisonKipp - WI001368.0012.00001

TestAmerica Job ID: 500-72448-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-72448-1	B-194 (2-4)	Solid	02/27/14 15:15	03/01/14 09:25
500-72448-2	B-194 (8-10)	Solid	02/27/14 15:25	03/01/14 09:25
500-72448-3	B-194 (20-21)	Solid	02/27/14 15:30	03/01/14 09:25
500-72448-4	B-193 (0-2)	Solid	02/27/14 15:35	03/01/14 09:25
500-72448-5	B-193 (12-14)	Solid	02/27/14 15:40	03/01/14 09:25
500-72448-6	B-193 (18-20)	Solid	02/27/14 15:45	03/01/14 09:25
500-72448-7	B-195 (0-2)	Solid	02/27/14 15:50	03/01/14 09:25
500-72448-8	B-195 (10-12)	Solid	02/27/14 15:55	03/01/14 09:25
500-72448-9	B-195 (18-20)	Solid	02/27/14 16:00	03/01/14 09:25
500-72448-10	Trip Blank	Solid	02/27/14 00:00	03/01/14 09:25

Client: ARCADIS U.S., Inc.
Project/Site: MadisonKipp - WI001368.0012.00001

TestAmerica Job ID: 500-72448-1

Client Sample ID: B-194 (2-4)
Date Collected: 02/27/14 15:15
Date Received: 03/01/14 09:25

Lab Sample ID: 500-72448-1
Matrix: Solid
Percent Solids: 80.8

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<38		220	38	ug/Kg	☼	02/27/14 15:15	03/06/14 01:09	50
1,1,1-Trichloroethane	<22		110	22	ug/Kg	☼	02/27/14 15:15	03/06/14 01:09	50
1,1,2,2-Tetrachloroethane	<26		110	26	ug/Kg	☼	02/27/14 15:15	03/06/14 01:09	50
1,1,2-Trichloroethane	<30		110	30	ug/Kg	☼	02/27/14 15:15	03/06/14 01:09	50
1,1-Dichloroethane	<20		110	20	ug/Kg	☼	02/27/14 15:15	03/06/14 01:09	50
1,1-Dichloroethene	<33		110	33	ug/Kg	☼	02/27/14 15:15	03/06/14 01:09	50
1,1-Dichloropropene	<38		110	38	ug/Kg	☼	02/27/14 15:15	03/06/14 01:09	50
1,2,3-Trichlorobenzene	<38	*	220	38	ug/Kg	☼	02/27/14 15:15	03/06/14 01:09	50
1,2,3-Trichloropropane	<63		220	63	ug/Kg	☼	02/27/14 15:15	03/06/14 01:09	50
1,2,4-Trichlorobenzene	<41	*	220	41	ug/Kg	☼	02/27/14 15:15	03/06/14 01:09	50
1,2,4-Trimethylbenzene	<23		220	23	ug/Kg	☼	02/27/14 15:15	03/06/14 01:09	50
1,2-Dibromo-3-Chloropropane	<95		220	95	ug/Kg	☼	02/27/14 15:15	03/06/14 01:09	50
1,2-Dibromoethane	<34		220	34	ug/Kg	☼	02/27/14 15:15	03/06/14 01:09	50
1,2-Dichlorobenzene	<22		220	22	ug/Kg	☼	02/27/14 15:15	03/06/14 01:09	50
1,2-Dichloroethane	<31		110	31	ug/Kg	☼	02/27/14 15:15	03/06/14 01:09	50
1,2-Dichloropropane	<21		110	21	ug/Kg	☼	02/27/14 15:15	03/06/14 01:09	50
1,3,5-Trimethylbenzene	<22		220	22	ug/Kg	☼	02/27/14 15:15	03/06/14 01:09	50
1,3-Dichlorobenzene	<28		220	28	ug/Kg	☼	02/27/14 15:15	03/06/14 01:09	50
1,3-Dichloropropane	<15		110	15	ug/Kg	☼	02/27/14 15:15	03/06/14 01:09	50
1,4-Dichlorobenzene	<19		220	19	ug/Kg	☼	02/27/14 15:15	03/06/14 01:09	50
2,2-Dichloropropane	<34		110	34	ug/Kg	☼	02/27/14 15:15	03/06/14 01:09	50
2-Chlorotoluene	<23		110	23	ug/Kg	☼	02/27/14 15:15	03/06/14 01:09	50
4-Chlorotoluene	<21		110	21	ug/Kg	☼	02/27/14 15:15	03/06/14 01:09	50
Benzene	<8.1		27	8.1	ug/Kg	☼	02/27/14 15:15	03/06/14 01:09	50
Bromobenzene	<46		220	46	ug/Kg	☼	02/27/14 15:15	03/06/14 01:09	50
Bromochloromethane	<41		220	41	ug/Kg	☼	02/27/14 15:15	03/06/14 01:09	50
Bromodichloromethane	<37		220	37	ug/Kg	☼	02/27/14 15:15	03/06/14 01:09	50
Bromoform	<48		220	48	ug/Kg	☼	02/27/14 15:15	03/06/14 01:09	50
Bromomethane	<74		220	74	ug/Kg	☼	02/27/14 15:15	03/06/14 01:09	50
Carbon tetrachloride	<28		110	28	ug/Kg	☼	02/27/14 15:15	03/06/14 01:09	50
Chlorobenzene	<16		110	16	ug/Kg	☼	02/27/14 15:15	03/06/14 01:09	50
Chloroethane	<47	*	220	47	ug/Kg	☼	02/27/14 15:15	03/06/14 01:09	50
Chloroform	<22		110	22	ug/Kg	☼	02/27/14 15:15	03/06/14 01:09	50
Chloromethane	<50		220	50	ug/Kg	☼	02/27/14 15:15	03/06/14 01:09	50
cis-1,2-Dichloroethene	<13		110	13	ug/Kg	☼	02/27/14 15:15	03/06/14 01:09	50
cis-1,3-Dichloropropene	<19		110	19	ug/Kg	☼	02/27/14 15:15	03/06/14 01:09	50
Dibromochloromethane	<38		220	38	ug/Kg	☼	02/27/14 15:15	03/06/14 01:09	50
Dibromomethane	<52		220	52	ug/Kg	☼	02/27/14 15:15	03/06/14 01:09	50
Dichlorodifluoromethane	<56	*	220	56	ug/Kg	☼	02/27/14 15:15	03/06/14 01:09	50
Ethylbenzene	<14		27	14	ug/Kg	☼	02/27/14 15:15	03/06/14 01:09	50
Hexachlorobutadiene	<38		220	38	ug/Kg	☼	02/27/14 15:15	03/06/14 01:09	50
Isopropyl ether	<16		220	16	ug/Kg	☼	02/27/14 15:15	03/06/14 01:09	50
Isopropylbenzene	<27		220	27	ug/Kg	☼	02/27/14 15:15	03/06/14 01:09	50
Methyl tert-butyl ether	<47		220	47	ug/Kg	☼	02/27/14 15:15	03/06/14 01:09	50
Methylene Chloride	<75		550	75	ug/Kg	☼	02/27/14 15:15	03/06/14 01:09	50
Naphthalene	<54	*	220	54	ug/Kg	☼	02/27/14 15:15	03/06/14 01:09	50
n-Butylbenzene	<14		110	14	ug/Kg	☼	02/27/14 15:15	03/06/14 01:09	50
N-Propylbenzene	<19		220	19	ug/Kg	☼	02/27/14 15:15	03/06/14 01:09	50
p-Isopropyltoluene	<20		220	20	ug/Kg	☼	02/27/14 15:15	03/06/14 01:09	50

Client: ARCADIS U.S., Inc.
Project/Site: MadisonKipp - WI001368.0012.00001

TestAmerica Job ID: 500-72448-1

Client Sample ID: B-194 (2-4)

Date Collected: 02/27/14 15:15
Date Received: 03/01/14 09:25

Lab Sample ID: 500-72448-1

Matrix: Solid
Percent Solids: 80.8

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	<17		110	17	ug/Kg	☼	02/27/14 15:15	03/06/14 01:09	50
Styrene	<11		110	11	ug/Kg	☼	02/27/14 15:15	03/06/14 01:09	50
tert-Butylbenzene	<15		110	15	ug/Kg	☼	02/27/14 15:15	03/06/14 01:09	50
Tetrachloroethene	**55**	**J**	110	18	ug/Kg	☼	02/27/14 15:15	03/06/14 01:09	50
Toluene	**30**		27	13	ug/Kg	☼	02/27/14 15:15	03/06/14 01:09	50
trans-1,2-Dichloroethene	<27		110	27	ug/Kg	☼	02/27/14 15:15	03/06/14 01:09	50
trans-1,3-Dichloropropene	<23		110	23	ug/Kg	☼	02/27/14 15:15	03/06/14 01:09	50
Trichloroethene	<20		55	20	ug/Kg	☼	02/27/14 15:15	03/06/14 01:09	50
Trichlorofluoromethane	<45		220	45	ug/Kg	☼	02/27/14 15:15	03/06/14 01:09	50
Vinyl chloride	<11	*	27	11	ug/Kg	☼	02/27/14 15:15	03/06/14 01:09	50
Xylenes, Total	<7.5		55	7.5	ug/Kg	☼	02/27/14 15:15	03/06/14 01:09	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*75 - 125*	*02/27/14 15:15*	*03/06/14 01:09*	*50*
4-Bromofluorobenzene (Surr)	*111*		*75 - 120*	*02/27/14 15:15*	*03/06/14 01:09*	*50*
Dibromofluoromethane	*89*		*75 - 120*	*02/27/14 15:15*	*03/06/14 01:09*	*50*
Toluene-d8 (Surr)	*96*		*75 - 120*	*02/27/14 15:15*	*03/06/14 01:09*	*50*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<7.1		20	7.1	ug/Kg	☼	03/03/14 17:46	03/05/14 09:38	1
PCB-1221	<8.8		20	8.8	ug/Kg	☼	03/03/14 17:46	03/05/14 09:38	1
PCB-1232	<8.7		20	8.7	ug/Kg	☼	03/03/14 17:46	03/05/14 09:38	1
PCB-1242	<6.6		20	6.6	ug/Kg	☼	03/03/14 17:46	03/05/14 09:38	1
PCB-1248	<7.9		20	7.9	ug/Kg	☼	03/03/14 17:46	03/05/14 09:38	1
PCB-1254	<4.3		20	4.3	ug/Kg	☼	03/03/14 17:46	03/05/14 09:38	1
PCB-1260	<9.8		20	9.8	ug/Kg	☼	03/03/14 17:46	03/05/14 09:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*77*		*50 - 116*	*03/03/14 17:46*	*03/05/14 09:38*	*1*
DCB Decachlorobiphenyl	*105*		*48 - 142*	*03/03/14 17:46*	*03/05/14 09:38*	*1*

Client Sample ID: B-194 (8-10)

Date Collected: 02/27/14 15:25
Date Received: 03/01/14 09:25

Lab Sample ID: 500-72448-2

Matrix: Solid
Percent Solids: 94.2

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<31		180	31	ug/Kg	☼	02/27/14 15:25	03/06/14 01:34	50
1,1,1-Trichloroethane	<18		91	18	ug/Kg	☼	02/27/14 15:25	03/06/14 01:34	50
1,1,2,2-Tetrachloroethane	<21		91	21	ug/Kg	☼	02/27/14 15:25	03/06/14 01:34	50
1,1,2-Trichloroethane	<25		91	25	ug/Kg	☼	02/27/14 15:25	03/06/14 01:34	50
1,1-Dichloroethane	<17		91	17	ug/Kg	☼	02/27/14 15:25	03/06/14 01:34	50
1,1-Dichloroethene	<28		91	28	ug/Kg	☼	02/27/14 15:25	03/06/14 01:34	50
1,1-Dichloropropene	<31		91	31	ug/Kg	☼	02/27/14 15:25	03/06/14 01:34	50
1,2,3-Trichlorobenzene	<32	*	180	32	ug/Kg	☼	02/27/14 15:25	03/06/14 01:34	50
1,2,3-Trichloropropane	<52		180	52	ug/Kg	☼	02/27/14 15:25	03/06/14 01:34	50
1,2,4-Trichlorobenzene	<34	*	180	34	ug/Kg	☼	02/27/14 15:25	03/06/14 01:34	50
1,2,4-Trimethylbenzene	<19		180	19	ug/Kg	☼	02/27/14 15:25	03/06/14 01:34	50
1,2-Dibromo-3-Chloropropane	<79		180	79	ug/Kg	☼	02/27/14 15:25	03/06/14 01:34	50

Client: ARCADIS U.S., Inc.
Project/Site: MadisonKipp - WI001368.0012.00001

TestAmerica Job ID: 500-72448-1

Client Sample ID: B-194 (8-10)
Date Collected: 02/27/14 15:25
Date Received: 03/01/14 09:25

Lab Sample ID: 500-72448-2
Matrix: Solid
Percent Solids: 94.2

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane	<29		180	29	ug/Kg	☼	02/27/14 15:25	03/06/14 01:34	50
1,2-Dichlorobenzene	<19		180	19	ug/Kg	☼	02/27/14 15:25	03/06/14 01:34	50
1,2-Dichloroethane	<26		91	26	ug/Kg	☼	02/27/14 15:25	03/06/14 01:34	50
1,2-Dichloropropane	<18		91	18	ug/Kg	☼	02/27/14 15:25	03/06/14 01:34	50
1,3,5-Trimethylbenzene	<19		180	19	ug/Kg	☼	02/27/14 15:25	03/06/14 01:34	50
1,3-Dichlorobenzene	<23		180	23	ug/Kg	☼	02/27/14 15:25	03/06/14 01:34	50
1,3-Dichloropropane	<12		91	12	ug/Kg	☼	02/27/14 15:25	03/06/14 01:34	50
1,4-Dichlorobenzene	<16		180	16	ug/Kg	☼	02/27/14 15:25	03/06/14 01:34	50
2,2-Dichloropropane	<29		91	29	ug/Kg	☼	02/27/14 15:25	03/06/14 01:34	50
2-Chlorotoluene	<19		91	19	ug/Kg	☼	02/27/14 15:25	03/06/14 01:34	50
4-Chlorotoluene	<18		91	18	ug/Kg	☼	02/27/14 15:25	03/06/14 01:34	50
Benzene	<6.7		23	6.7	ug/Kg	☼	02/27/14 15:25	03/06/14 01:34	50
Bromobenzene	<39		180	39	ug/Kg	☼	02/27/14 15:25	03/06/14 01:34	50
Bromochloromethane	<34		180	34	ug/Kg	☼	02/27/14 15:25	03/06/14 01:34	50
Bromodichloromethane	<31		180	31	ug/Kg	☼	02/27/14 15:25	03/06/14 01:34	50
Bromoform	<40		180	40	ug/Kg	☼	02/27/14 15:25	03/06/14 01:34	50
Bromomethane	<62		180	62	ug/Kg	☼	02/27/14 15:25	03/06/14 01:34	50
Carbon tetrachloride	<23		91	23	ug/Kg	☼	02/27/14 15:25	03/06/14 01:34	50
Chlorobenzene	<13		91	13	ug/Kg	☼	02/27/14 15:25	03/06/14 01:34	50
Chloroethane	<40	*	180	40	ug/Kg	☼	02/27/14 15:25	03/06/14 01:34	50
Chloroform	<19		91	19	ug/Kg	☼	02/27/14 15:25	03/06/14 01:34	50
Chloromethane	<42		180	42	ug/Kg	☼	02/27/14 15:25	03/06/14 01:34	50
cis-1,2-Dichloroethene	<11		91	11	ug/Kg	☼	02/27/14 15:25	03/06/14 01:34	50
cis-1,3-Dichloropropene	<16		91	16	ug/Kg	☼	02/27/14 15:25	03/06/14 01:34	50
Dibromochloromethane	<31		180	31	ug/Kg	☼	02/27/14 15:25	03/06/14 01:34	50
Dibromomethane	<44		180	44	ug/Kg	☼	02/27/14 15:25	03/06/14 01:34	50
Dichlorodifluoromethane	<47	*	180	47	ug/Kg	☼	02/27/14 15:25	03/06/14 01:34	50
Ethylbenzene	<11		23	11	ug/Kg	☼	02/27/14 15:25	03/06/14 01:34	50
Hexachlorobutadiene	<31		180	31	ug/Kg	☼	02/27/14 15:25	03/06/14 01:34	50
Isopropyl ether	<13		180	13	ug/Kg	☼	02/27/14 15:25	03/06/14 01:34	50
Isopropylbenzene	<23		180	23	ug/Kg	☼	02/27/14 15:25	03/06/14 01:34	50
Methyl tert-butyl ether	<39		180	39	ug/Kg	☼	02/27/14 15:25	03/06/14 01:34	50
Methylene Chloride	<62		450	62	ug/Kg	☼	02/27/14 15:25	03/06/14 01:34	50
Naphthalene	<45	*	180	45	ug/Kg	☼	02/27/14 15:25	03/06/14 01:34	50
n-Butylbenzene	<12		91	12	ug/Kg	☼	02/27/14 15:25	03/06/14 01:34	50
N-Propylbenzene	<16		180	16	ug/Kg	☼	02/27/14 15:25	03/06/14 01:34	50
p-Isopropyltoluene	<17		180	17	ug/Kg	☼	02/27/14 15:25	03/06/14 01:34	50
sec-Butylbenzene	<14		91	14	ug/Kg	☼	02/27/14 15:25	03/06/14 01:34	50
Styrene	<9.0		91	9.0	ug/Kg	☼	02/27/14 15:25	03/06/14 01:34	50
tert-Butylbenzene	<12		91	12	ug/Kg	☼	02/27/14 15:25	03/06/14 01:34	50
Tetrachloroethene	<15		91	15	ug/Kg	☼	02/27/14 15:25	03/06/14 01:34	50
Toluene	<10		23	10	ug/Kg	☼	02/27/14 15:25	03/06/14 01:34	50
trans-1,2-Dichloroethene	<23		91	23	ug/Kg	☼	02/27/14 15:25	03/06/14 01:34	50
trans-1,3-Dichloropropene	<19		91	19	ug/Kg	☼	02/27/14 15:25	03/06/14 01:34	50
Trichloroethene	<17		45	17	ug/Kg	☼	02/27/14 15:25	03/06/14 01:34	50
Trichlorofluoromethane	<38		180	38	ug/Kg	☼	02/27/14 15:25	03/06/14 01:34	50
Vinyl chloride	<9.4	*	23	9.4	ug/Kg	☼	02/27/14 15:25	03/06/14 01:34	50
Xylenes, Total	<6.2		45	6.2	ug/Kg	☼	02/27/14 15:25	03/06/14 01:34	50

Client Sample ID: B-194 (8-10)

Lab Sample ID: 500-72448-2

Date Collected: 02/27/14 15:25
Matrix: Solid
Date Received: 03/01/14 09:25
Percent Solids: 94.2

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		75 - 125	02/27/14 15:25	03/06/14 01:34	50
4-Bromofluorobenzene (Surr)	112		75 - 120	02/27/14 15:25	03/06/14 01:34	50
Dibromofluoromethane	86		75 - 120	02/27/14 15:25	03/06/14 01:34	50
Toluene-d8 (Surr)	95		75 - 120	02/27/14 15:25	03/06/14 01:34	50

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<6.0		17	6.0	ug/Kg	☼	03/03/14 17:46	03/05/14 09:52	1
PCB-1221	<7.5		17	7.5	ug/Kg	☼	03/03/14 17:46	03/05/14 09:52	1
PCB-1232	<7.4		17	7.4	ug/Kg	☼	03/03/14 17:46	03/05/14 09:52	1
PCB-1242	180		17	5.6	ug/Kg	☼	03/03/14 17:46	03/05/14 09:52	1
PCB-1248	<6.7		17	6.7	ug/Kg	☼	03/03/14 17:46	03/05/14 09:52	1
PCB-1254	<3.7		17	3.7	ug/Kg	☼	03/03/14 17:46	03/05/14 09:52	1
PCB-1260	<8.4		17	8.4	ug/Kg	☼	03/03/14 17:46	03/05/14 09:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	86		50 - 116	03/03/14 17:46	03/05/14 09:52	1
DCB Decachlorobiphenyl	85		48 - 142	03/03/14 17:46	03/05/14 09:52	1

Client Sample ID: B-194 (20-21)

Lab Sample ID: 500-72448-3

Date Collected: 02/27/14 15:30
Matrix: Solid
Date Received: 03/01/14 09:25
Percent Solids: 93.8

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<26		150	26	ug/Kg	☼	02/27/14 15:30	03/06/14 01:59	50
1,1,1-Trichloroethane	<15		76	15	ug/Kg	☼	02/27/14 15:30	03/06/14 01:59	50
1,1,2,2-Tetrachloroethane	<18		76	18	ug/Kg	☼	02/27/14 15:30	03/06/14 01:59	50
1,1,2-Trichloroethane	<21		76	21	ug/Kg	☼	02/27/14 15:30	03/06/14 01:59	50
1,1-Dichloroethane	<14		76	14	ug/Kg	☼	02/27/14 15:30	03/06/14 01:59	50
1,1-Dichloroethene	<23		76	23	ug/Kg	☼	02/27/14 15:30	03/06/14 01:59	50
1,1-Dichloropropene	<26		76	26	ug/Kg	☼	02/27/14 15:30	03/06/14 01:59	50
1,2,3-Trichlorobenzene	<27	*	150	27	ug/Kg	☼	02/27/14 15:30	03/06/14 01:59	50
1,2,3-Trichloropropane	<44		150	44	ug/Kg	☼	02/27/14 15:30	03/06/14 01:59	50
1,2,4-Trichlorobenzene	<29	*	150	29	ug/Kg	☼	02/27/14 15:30	03/06/14 01:59	50
1,2,4-Trimethylbenzene	<16		150	16	ug/Kg	☼	02/27/14 15:30	03/06/14 01:59	50
1,2-Dibromo-3-Chloropropane	<67		150	67	ug/Kg	☼	02/27/14 15:30	03/06/14 01:59	50
1,2-Dibromoethane	<24		150	24	ug/Kg	☼	02/27/14 15:30	03/06/14 01:59	50
1,2-Dichlorobenzene	<16		150	16	ug/Kg	☼	02/27/14 15:30	03/06/14 01:59	50
1,2-Dichloroethane	<22		76	22	ug/Kg	☼	02/27/14 15:30	03/06/14 01:59	50
1,2-Dichloropropane	<15		76	15	ug/Kg	☼	02/27/14 15:30	03/06/14 01:59	50
1,3,5-Trimethylbenzene	<16		150	16	ug/Kg	☼	02/27/14 15:30	03/06/14 01:59	50
1,3-Dichlorobenzene	<20		150	20	ug/Kg	☼	02/27/14 15:30	03/06/14 01:59	50
1,3-Dichloropropane	<10		76	10	ug/Kg	☼	02/27/14 15:30	03/06/14 01:59	50
1,4-Dichlorobenzene	<13		150	13	ug/Kg	☼	02/27/14 15:30	03/06/14 01:59	50
2,2-Dichloropropane	<24		76	24	ug/Kg	☼	02/27/14 15:30	03/06/14 01:59	50
2-Chlorotoluene	<16		76	16	ug/Kg	☼	02/27/14 15:30	03/06/14 01:59	50
4-Chlorotoluene	<15		76	15	ug/Kg	☼	02/27/14 15:30	03/06/14 01:59	50
Benzene	<5.7		19	5.7	ug/Kg	☼	02/27/14 15:30	03/06/14 01:59	50
Bromobenzene	<33		150	33	ug/Kg	☼	02/27/14 15:30	03/06/14 01:59	50
Bromochloromethane	<29		150	29	ug/Kg	☼	02/27/14 15:30	03/06/14 01:59	50

Client: ARCADIS U.S., Inc.
Project/Site: MadisonKipp - WI001368.0012.00001

TestAmerica Job ID: 500-72448-1

Client Sample ID: B-194 (20-21)
Date Collected: 02/27/14 15:30
Date Received: 03/01/14 09:25

Lab Sample ID: 500-72448-3
Matrix: Solid
Percent Solids: 93.8

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromodichloromethane	<26		150	26	ug/Kg	☼	02/27/14 15:30	03/06/14 01:59	50
Bromoform	<34		150	34	ug/Kg	☼	02/27/14 15:30	03/06/14 01:59	50
Bromomethane	<52		150	52	ug/Kg	☼	02/27/14 15:30	03/06/14 01:59	50
Carbon tetrachloride	<20		76	20	ug/Kg	☼	02/27/14 15:30	03/06/14 01:59	50
Chlorobenzene	<11		76	11	ug/Kg	☼	02/27/14 15:30	03/06/14 01:59	50
Chloroethane	<33	*	150	33	ug/Kg	☼	02/27/14 15:30	03/06/14 01:59	50
Chloroform	<16		76	16	ug/Kg	☼	02/27/14 15:30	03/06/14 01:59	50
Chloromethane	<35		150	35	ug/Kg	☼	02/27/14 15:30	03/06/14 01:59	50
cis-1,2-Dichloroethene	<9.4		76	9.4	ug/Kg	☼	02/27/14 15:30	03/06/14 01:59	50
cis-1,3-Dichloropropene	<14		76	14	ug/Kg	☼	02/27/14 15:30	03/06/14 01:59	50
Dibromochloromethane	<26		150	26	ug/Kg	☼	02/27/14 15:30	03/06/14 01:59	50
Dibromomethane	<37		150	37	ug/Kg	☼	02/27/14 15:30	03/06/14 01:59	50
Dichlorodifluoromethane	<39	*	150	39	ug/Kg	☼	02/27/14 15:30	03/06/14 01:59	50
Ethylbenzene	<9.6		19	9.6	ug/Kg	☼	02/27/14 15:30	03/06/14 01:59	50
Hexachlorobutadiene	<26		150	26	ug/Kg	☼	02/27/14 15:30	03/06/14 01:59	50
Isopropyl ether	<11		150	11	ug/Kg	☼	02/27/14 15:30	03/06/14 01:59	50
Isopropylbenzene	<19		150	19	ug/Kg	☼	02/27/14 15:30	03/06/14 01:59	50
Methyl tert-butyl ether	<33		150	33	ug/Kg	☼	02/27/14 15:30	03/06/14 01:59	50
Methylene Chloride	<52		380	52	ug/Kg	☼	02/27/14 15:30	03/06/14 01:59	50
Naphthalene	<38	*	150	38	ug/Kg	☼	02/27/14 15:30	03/06/14 01:59	50
n-Butylbenzene	<9.9		76	9.9	ug/Kg	☼	02/27/14 15:30	03/06/14 01:59	50
N-Propylbenzene	<13		150	13	ug/Kg	☼	02/27/14 15:30	03/06/14 01:59	50
p-Isopropyltoluene	<14		150	14	ug/Kg	☼	02/27/14 15:30	03/06/14 01:59	50
sec-Butylbenzene	<12		76	12	ug/Kg	☼	02/27/14 15:30	03/06/14 01:59	50
Styrene	<7.6		76	7.6	ug/Kg	☼	02/27/14 15:30	03/06/14 01:59	50
tert-Butylbenzene	<10		76	10	ug/Kg	☼	02/27/14 15:30	03/06/14 01:59	50
Tetrachloroethene	<13		76	13	ug/Kg	☼	02/27/14 15:30	03/06/14 01:59	50
Toluene	<8.8		19	8.8	ug/Kg	☼	02/27/14 15:30	03/06/14 01:59	50
trans-1,2-Dichloroethene	<19		76	19	ug/Kg	☼	02/27/14 15:30	03/06/14 01:59	50
trans-1,3-Dichloropropene	<16		76	16	ug/Kg	☼	02/27/14 15:30	03/06/14 01:59	50
Trichloroethene	<14		38	14	ug/Kg	☼	02/27/14 15:30	03/06/14 01:59	50
Trichlorofluoromethane	<32		150	32	ug/Kg	☼	02/27/14 15:30	03/06/14 01:59	50
Vinyl chloride	<8.0	*	19	8.0	ug/Kg	☼	02/27/14 15:30	03/06/14 01:59	50
Xylenes, Total	<5.2		38	5.2	ug/Kg	☼	02/27/14 15:30	03/06/14 01:59	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*75 - 125*	*02/27/14 15:30*	*03/06/14 01:59*	*50*
4-Bromofluorobenzene (Surr)	*114*		*75 - 120*	*02/27/14 15:30*	*03/06/14 01:59*	*50*
Dibromofluoromethane	*87*		*75 - 120*	*02/27/14 15:30*	*03/06/14 01:59*	*50*
Toluene-d8 (Surr)	*95*		*75 - 120*	*02/27/14 15:30*	*03/06/14 01:59*	*50*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<6.1		17	6.1	ug/Kg	☼	03/03/14 17:46	03/05/14 10:06	1
PCB-1221	<7.6		17	7.6	ug/Kg	☼	03/03/14 17:46	03/05/14 10:06	1
PCB-1232	<7.5		17	7.5	ug/Kg	☼	03/03/14 17:46	03/05/14 10:06	1
PCB-1242	<5.7		17	5.7	ug/Kg	☼	03/03/14 17:46	03/05/14 10:06	1
PCB-1248	<6.8		17	6.8	ug/Kg	☼	03/03/14 17:46	03/05/14 10:06	1
PCB-1254	<3.7		17	3.7	ug/Kg	☼	03/03/14 17:46	03/05/14 10:06	1
PCB-1260	<8.5		17	8.5	ug/Kg	☼	03/03/14 17:46	03/05/14 10:06	1

Client Sample ID: B-194 (20-21)
Date Collected: 02/27/14 15:30
Date Received: 03/01/14 09:25

Lab Sample ID: 500-72448-3
Matrix: Solid
Percent Solids: 93.8

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	*59*		*50 - 116*	*03/03/14 17:46*	*03/05/14 10:06*	*1*
DCB Decachlorobiphenyl	*80*		*48 - 142*	*03/03/14 17:46*	*03/05/14 10:06*	*1*

Client Sample ID: B-193 (0-2)
Date Collected: 02/27/14 15:35
Date Received: 03/01/14 09:25

Lab Sample ID: 500-72448-4
Matrix: Solid
Percent Solids: 84.7

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<38		220	38	ug/Kg	☼	02/27/14 15:35	03/06/14 02:24	50
1,1,1-Trichloroethane	<22		110	22	ug/Kg	☼	02/27/14 15:35	03/06/14 02:24	50
1,1,2,2-Tetrachloroethane	<26		110	26	ug/Kg	☼	02/27/14 15:35	03/06/14 02:24	50
1,1,2-Trichloroethane	<31		110	31	ug/Kg	☼	02/27/14 15:35	03/06/14 02:24	50
1,1-Dichloroethane	<20		110	20	ug/Kg	☼	02/27/14 15:35	03/06/14 02:24	50
1,1-Dichloroethene	<34		110	34	ug/Kg	☼	02/27/14 15:35	03/06/14 02:24	50
1,1-Dichloropropene	<38		110	38	ug/Kg	☼	02/27/14 15:35	03/06/14 02:24	50
1,2,3-Trichlorobenzene	<39	*	220	39	ug/Kg	☼	02/27/14 15:35	03/06/14 02:24	50
1,2,3-Trichloropropane	<63		220	63	ug/Kg	☼	02/27/14 15:35	03/06/14 02:24	50
1,2,4-Trichlorobenzene	<42	*	220	42	ug/Kg	☼	02/27/14 15:35	03/06/14 02:24	50
1,2,4-Trimethylbenzene	<23		220	23	ug/Kg	☼	02/27/14 15:35	03/06/14 02:24	50
1,2-Dibromo-3-Chloropropane	<96		220	96	ug/Kg	☼	02/27/14 15:35	03/06/14 02:24	50
1,2-Dibromoethane	<35		220	35	ug/Kg	☼	02/27/14 15:35	03/06/14 02:24	50
1,2-Dichlorobenzene	<23		220	23	ug/Kg	☼	02/27/14 15:35	03/06/14 02:24	50
1,2-Dichloroethane	<31		110	31	ug/Kg	☼	02/27/14 15:35	03/06/14 02:24	50
1,2-Dichloropropane	<22		110	22	ug/Kg	☼	02/27/14 15:35	03/06/14 02:24	50
1,3,5-Trimethylbenzene	<23		220	23	ug/Kg	☼	02/27/14 15:35	03/06/14 02:24	50
1,3-Dichlorobenzene	<28		220	28	ug/Kg	☼	02/27/14 15:35	03/06/14 02:24	50
1,3-Dichloropropane	<15		110	15	ug/Kg	☼	02/27/14 15:35	03/06/14 02:24	50
1,4-Dichlorobenzene	<19		220	19	ug/Kg	☼	02/27/14 15:35	03/06/14 02:24	50
2,2-Dichloropropane	<35		110	35	ug/Kg	☼	02/27/14 15:35	03/06/14 02:24	50
2-Chlorotoluene	<23		110	23	ug/Kg	☼	02/27/14 15:35	03/06/14 02:24	50
4-Chlorotoluene	<22		110	22	ug/Kg	☼	02/27/14 15:35	03/06/14 02:24	50
Benzene	<8.2		28	8.2	ug/Kg	☼	02/27/14 15:35	03/06/14 02:24	50
Bromobenzene	<47		220	47	ug/Kg	☼	02/27/14 15:35	03/06/14 02:24	50
Bromochloromethane	<42		220	42	ug/Kg	☼	02/27/14 15:35	03/06/14 02:24	50
Bromodichloromethane	<37		220	37	ug/Kg	☼	02/27/14 15:35	03/06/14 02:24	50
Bromoform	<49		220	49	ug/Kg	☼	02/27/14 15:35	03/06/14 02:24	50
Bromomethane	<75		220	75	ug/Kg	☼	02/27/14 15:35	03/06/14 02:24	50
Carbon tetrachloride	<28		110	28	ug/Kg	☼	02/27/14 15:35	03/06/14 02:24	50
Chlorobenzene	<16		110	16	ug/Kg	☼	02/27/14 15:35	03/06/14 02:24	50
Chloroethane	<48	*	220	48	ug/Kg	☼	02/27/14 15:35	03/06/14 02:24	50
Chloroform	<23		110	23	ug/Kg	☼	02/27/14 15:35	03/06/14 02:24	50
Chloromethane	<51		220	51	ug/Kg	☼	02/27/14 15:35	03/06/14 02:24	50
cis-1,2-Dichloroethene	<14		110	14	ug/Kg	☼	02/27/14 15:35	03/06/14 02:24	50
cis-1,3-Dichloropropene	<20		110	20	ug/Kg	☼	02/27/14 15:35	03/06/14 02:24	50
Dibromochloromethane	<38		220	38	ug/Kg	☼	02/27/14 15:35	03/06/14 02:24	50
Dibromomethane	<53		220	53	ug/Kg	☼	02/27/14 15:35	03/06/14 02:24	50
Dichlorodifluoromethane	<56	*	220	56	ug/Kg	☼	02/27/14 15:35	03/06/14 02:24	50
Ethylbenzene	<14		28	14	ug/Kg	☼	02/27/14 15:35	03/06/14 02:24	50
Hexachlorobutadiene	<38		220	38	ug/Kg	☼	02/27/14 15:35	03/06/14 02:24	50

Client Sample ID: B-193 (0-2)
Date Collected: 02/27/14 15:35
Date Received: 03/01/14 09:25

Lab Sample ID: 500-72448-4
Matrix: Solid
Percent Solids: 84.7

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isopropyl ether	<16		220	16	ug/Kg	☼	02/27/14 15:35	03/06/14 02:24	50
Isopropylbenzene	<28		220	28	ug/Kg	☼	02/27/14 15:35	03/06/14 02:24	50
Methyl tert-butyl ether	<47		220	47	ug/Kg	☼	02/27/14 15:35	03/06/14 02:24	50
Methylene Chloride	<75		550	75	ug/Kg	☼	02/27/14 15:35	03/06/14 02:24	50
Naphthalene	<54	*	220	54	ug/Kg	☼	02/27/14 15:35	03/06/14 02:24	50
n-Butylbenzene	<14		110	14	ug/Kg	☼	02/27/14 15:35	03/06/14 02:24	50
N-Propylbenzene	<19		220	19	ug/Kg	☼	02/27/14 15:35	03/06/14 02:24	50
p-Isopropyltoluene	<20		220	20	ug/Kg	☼	02/27/14 15:35	03/06/14 02:24	50
sec-Butylbenzene	<17		110	17	ug/Kg	☼	02/27/14 15:35	03/06/14 02:24	50
Styrene	<11		110	11	ug/Kg	☼	02/27/14 15:35	03/06/14 02:24	50
tert-Butylbenzene	<15		110	15	ug/Kg	☼	02/27/14 15:35	03/06/14 02:24	50
Tetrachloroethene	**150**		110	18	ug/Kg	☼	02/27/14 15:35	03/06/14 02:24	50
Toluene	<13		28	13	ug/Kg	☼	02/27/14 15:35	03/06/14 02:24	50
trans-1,2-Dichloroethene	<28		110	28	ug/Kg	☼	02/27/14 15:35	03/06/14 02:24	50
trans-1,3-Dichloropropene	<23		110	23	ug/Kg	☼	02/27/14 15:35	03/06/14 02:24	50
Trichloroethene	<20		55	20	ug/Kg	☼	02/27/14 15:35	03/06/14 02:24	50
Trichlorofluoromethane	<46		220	46	ug/Kg	☼	02/27/14 15:35	03/06/14 02:24	50
Vinyl chloride	<11	*	28	11	ug/Kg	☼	02/27/14 15:35	03/06/14 02:24	50
Xylenes, Total	<7.5		55	7.5	ug/Kg	☼	02/27/14 15:35	03/06/14 02:24	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*75 - 125*	*02/27/14 15:35*	*03/06/14 02:24*	*50*
4-Bromofluorobenzene (Surr)	*113*		*75 - 120*	*02/27/14 15:35*	*03/06/14 02:24*	*50*
Dibromofluoromethane	*87*		*75 - 120*	*02/27/14 15:35*	*03/06/14 02:24*	*50*
Toluene-d8 (Surr)	*96*		*75 - 120*	*02/27/14 15:35*	*03/06/14 02:24*	*50*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<7.0		20	7.0	ug/Kg	☼	03/03/14 17:46	03/05/14 10:19	1
PCB-1221	<8.7		20	8.7	ug/Kg	☼	03/03/14 17:46	03/05/14 10:19	1
PCB-1232	<8.6		20	8.6	ug/Kg	☼	03/03/14 17:46	03/05/14 10:19	1
PCB-1242	**17**	**J**	20	6.5	ug/Kg	☼	03/03/14 17:46	03/05/14 10:19	1
PCB-1248	<7.7		20	7.7	ug/Kg	☼	03/03/14 17:46	03/05/14 10:19	1
PCB-1254	<4.2		20	4.2	ug/Kg	☼	03/03/14 17:46	03/05/14 10:19	1
PCB-1260	<9.7		20	9.7	ug/Kg	☼	03/03/14 17:46	03/05/14 10:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*47*	*X*	*50 - 116*	*03/03/14 17:46*	*03/05/14 10:19*	*1*
DCB Decachlorobiphenyl	*73*		*48 - 142*	*03/03/14 17:46*	*03/05/14 10:19*	*1*

Client Sample ID: B-193 (12-14)
Date Collected: 02/27/14 15:40
Date Received: 03/01/14 09:25

Lab Sample ID: 500-72448-5
Matrix: Solid
Percent Solids: 91.0

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<32		180	32	ug/Kg	☼	02/27/14 15:40	03/06/14 02:49	50
1,1,1-Trichloroethane	<18		92	18	ug/Kg	☼	02/27/14 15:40	03/06/14 02:49	50
1,1,2,2-Tetrachloroethane	<21		92	21	ug/Kg	☼	02/27/14 15:40	03/06/14 02:49	50
1,1,2-Trichloroethane	<26		92	26	ug/Kg	☼	02/27/14 15:40	03/06/14 02:49	50

Client: ARCADIS U.S., Inc.
Project/Site: MadisonKipp - WI001368.0012.00001

TestAmerica Job ID: 500-72448-1

Client Sample ID: B-193 (12-14)
Date Collected: 02/27/14 15:40
Date Received: 03/01/14 09:25

Lab Sample ID: 500-72448-5
Matrix: Solid
Percent Solids: 91.0

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	<17		92	17	ug/Kg	☼	02/27/14 15:40	03/06/14 02:49	50
1,1-Dichloroethene	<28		92	28	ug/Kg	☼	02/27/14 15:40	03/06/14 02:49	50
1,1-Dichloropropene	<32		92	32	ug/Kg	☼	02/27/14 15:40	03/06/14 02:49	50
1,2,3-Trichlorobenzene	<32	*	180	32	ug/Kg	☼	02/27/14 15:40	03/06/14 02:49	50
1,2,3-Trichloropropane	<53		180	53	ug/Kg	☼	02/27/14 15:40	03/06/14 02:49	50
1,2,4-Trichlorobenzene	<35	*	180	35	ug/Kg	☼	02/27/14 15:40	03/06/14 02:49	50
1,2,4-Trimethylbenzene	<19		180	19	ug/Kg	☼	02/27/14 15:40	03/06/14 02:49	50
1,2-Dibromo-3-Chloropropane	<80		180	80	ug/Kg	☼	02/27/14 15:40	03/06/14 02:49	50
1,2-Dibromoethane	<29		180	29	ug/Kg	☼	02/27/14 15:40	03/06/14 02:49	50
1,2-Dichlorobenzene	<19		180	19	ug/Kg	☼	02/27/14 15:40	03/06/14 02:49	50
1,2-Dichloroethane	<26		92	26	ug/Kg	☼	02/27/14 15:40	03/06/14 02:49	50
1,2-Dichloropropane	<18		92	18	ug/Kg	☼	02/27/14 15:40	03/06/14 02:49	50
1,3,5-Trimethylbenzene	<19		180	19	ug/Kg	☼	02/27/14 15:40	03/06/14 02:49	50
1,3-Dichlorobenzene	<24		180	24	ug/Kg	☼	02/27/14 15:40	03/06/14 02:49	50
1,3-Dichloropropane	<12		92	12	ug/Kg	☼	02/27/14 15:40	03/06/14 02:49	50
1,4-Dichlorobenzene	<16		180	16	ug/Kg	☼	02/27/14 15:40	03/06/14 02:49	50
2,2-Dichloropropane	<29		92	29	ug/Kg	☼	02/27/14 15:40	03/06/14 02:49	50
2-Chlorotoluene	<19		92	19	ug/Kg	☼	02/27/14 15:40	03/06/14 02:49	50
4-Chlorotoluene	<18		92	18	ug/Kg	☼	02/27/14 15:40	03/06/14 02:49	50
Benzene	<6.8		23	6.8	ug/Kg	☼	02/27/14 15:40	03/06/14 02:49	50
Bromobenzene	<39		180	39	ug/Kg	☼	02/27/14 15:40	03/06/14 02:49	50
Bromochloromethane	<35		180	35	ug/Kg	☼	02/27/14 15:40	03/06/14 02:49	50
Bromodichloromethane	<31		180	31	ug/Kg	☼	02/27/14 15:40	03/06/14 02:49	50
Bromoform	<40		180	40	ug/Kg	☼	02/27/14 15:40	03/06/14 02:49	50
Bromomethane	<63		180	63	ug/Kg	☼	02/27/14 15:40	03/06/14 02:49	50
Carbon tetrachloride	<24		92	24	ug/Kg	☼	02/27/14 15:40	03/06/14 02:49	50
Chlorobenzene	<13		92	13	ug/Kg	☼	02/27/14 15:40	03/06/14 02:49	50
Chloroethane	<40	*	180	40	ug/Kg	☼	02/27/14 15:40	03/06/14 02:49	50
Chloroform	<19		92	19	ug/Kg	☼	02/27/14 15:40	03/06/14 02:49	50
Chloromethane	<42		180	42	ug/Kg	☼	02/27/14 15:40	03/06/14 02:49	50
cis-1,2-Dichloroethene	<11		92	11	ug/Kg	☼	02/27/14 15:40	03/06/14 02:49	50
cis-1,3-Dichloropropene	<16		92	16	ug/Kg	☼	02/27/14 15:40	03/06/14 02:49	50
Dibromochloromethane	<32		180	32	ug/Kg	☼	02/27/14 15:40	03/06/14 02:49	50
Dibromomethane	<44		180	44	ug/Kg	☼	02/27/14 15:40	03/06/14 02:49	50
Dichlorodifluoromethane	<47	*	180	47	ug/Kg	☼	02/27/14 15:40	03/06/14 02:49	50
Ethylbenzene	<12		23	12	ug/Kg	☼	02/27/14 15:40	03/06/14 02:49	50
Hexachlorobutadiene	<32		180	32	ug/Kg	☼	02/27/14 15:40	03/06/14 02:49	50
Isopropyl ether	<13		180	13	ug/Kg	☼	02/27/14 15:40	03/06/14 02:49	50
Isopropylbenzene	<23		180	23	ug/Kg	☼	02/27/14 15:40	03/06/14 02:49	50
Methyl tert-butyl ether	<39		180	39	ug/Kg	☼	02/27/14 15:40	03/06/14 02:49	50
Methylene Chloride	<63		460	63	ug/Kg	☼	02/27/14 15:40	03/06/14 02:49	50
Naphthalene	<45	*	180	45	ug/Kg	☼	02/27/14 15:40	03/06/14 02:49	50
n-Butylbenzene	<12		92	12	ug/Kg	☼	02/27/14 15:40	03/06/14 02:49	50
N-Propylbenzene	<16		180	16	ug/Kg	☼	02/27/14 15:40	03/06/14 02:49	50
p-Isopropyltoluene	<17		180	17	ug/Kg	☼	02/27/14 15:40	03/06/14 02:49	50
sec-Butylbenzene	<14		92	14	ug/Kg	☼	02/27/14 15:40	03/06/14 02:49	50
Styrene	<9.1		92	9.1	ug/Kg	☼	02/27/14 15:40	03/06/14 02:49	50
tert-Butylbenzene	<12		92	12	ug/Kg	☼	02/27/14 15:40	03/06/14 02:49	50
Tetrachloroethene	**71**	**J**	92	15	ug/Kg	☼	02/27/14 15:40	03/06/14 02:49	50

Client Sample ID: B-193 (12-14)

Lab Sample ID: 500-72448-5

Date Collected: 02/27/14 15:40
Matrix: Solid
Date Received: 03/01/14 09:25
Percent Solids: 91.0

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	<11		23	11	ug/Kg	☼	02/27/14 15:40	03/06/14 02:49	50
trans-1,2-Dichloroethene	<23		92	23	ug/Kg	☼	02/27/14 15:40	03/06/14 02:49	50
trans-1,3-Dichloropropene	<19		92	19	ug/Kg	☼	02/27/14 15:40	03/06/14 02:49	50
Trichloroethene	<17		46	17	ug/Kg	☼	02/27/14 15:40	03/06/14 02:49	50
Trichlorofluoromethane	<38		180	38	ug/Kg	☼	02/27/14 15:40	03/06/14 02:49	50
Vinyl chloride	<9.5	*	23	9.5	ug/Kg	☼	02/27/14 15:40	03/06/14 02:49	50
Xylenes, Total	<6.3		46	6.3	ug/Kg	☼	02/27/14 15:40	03/06/14 02:49	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*75 - 125*	*02/27/14 15:40*	*03/06/14 02:49*	*50*
4-Bromofluorobenzene (Surr)	*113*		*75 - 120*	*02/27/14 15:40*	*03/06/14 02:49*	*50*
Dibromofluoromethane	*87*		*75 - 120*	*02/27/14 15:40*	*03/06/14 02:49*	*50*
Toluene-d8 (Surr)	*97*		*75 - 120*	*02/27/14 15:40*	*03/06/14 02:49*	*50*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<31		89	31	ug/Kg	☼	03/03/14 17:46	03/05/14 10:33	5
PCB-1221	<39		89	39	ug/Kg	☼	03/03/14 17:46	03/05/14 10:33	5
PCB-1232	<39		89	39	ug/Kg	☼	03/03/14 17:46	03/05/14 10:33	5
PCB-1242	<29		89	29	ug/Kg	☼	03/03/14 17:46	03/05/14 10:33	5
PCB-1248	**750**		89	35	ug/Kg	☼	03/03/14 17:46	03/05/14 10:33	5
PCB-1254	<19		89	19	ug/Kg	☼	03/03/14 17:46	03/05/14 10:33	5
PCB-1260	<44		89	44	ug/Kg	☼	03/03/14 17:46	03/05/14 10:33	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*73*		*50 - 116*	*03/03/14 17:46*	*03/05/14 10:33*	*5*
DCB Decachlorobiphenyl	*98*		*48 - 142*	*03/03/14 17:46*	*03/05/14 10:33*	*5*

Client Sample ID: B-193 (18-20)

Lab Sample ID: 500-72448-6

Date Collected: 02/27/14 15:45
Matrix: Solid
Date Received: 03/01/14 09:25
Percent Solids: 93.1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<30		170	30	ug/Kg	☼	02/27/14 15:45	03/06/14 03:13	50
1,1,1-Trichloroethane	<17		86	17	ug/Kg	☼	02/27/14 15:45	03/06/14 03:13	50
1,1,2,2-Tetrachloroethane	<20		86	20	ug/Kg	☼	02/27/14 15:45	03/06/14 03:13	50
1,1,2-Trichloroethane	<24		86	24	ug/Kg	☼	02/27/14 15:45	03/06/14 03:13	50
1,1-Dichloroethane	<16		86	16	ug/Kg	☼	02/27/14 15:45	03/06/14 03:13	50
1,1-Dichloroethene	<26		86	26	ug/Kg	☼	02/27/14 15:45	03/06/14 03:13	50
1,1-Dichloropropene	<29		86	29	ug/Kg	☼	02/27/14 15:45	03/06/14 03:13	50
1,2,3-Trichlorobenzene	<30	*	170	30	ug/Kg	☼	02/27/14 15:45	03/06/14 03:13	50
1,2,3-Trichloropropane	<49		170	49	ug/Kg	☼	02/27/14 15:45	03/06/14 03:13	50
1,2,4-Trichlorobenzene	<32	*	170	32	ug/Kg	☼	02/27/14 15:45	03/06/14 03:13	50
1,2,4-Trimethylbenzene	<18		170	18	ug/Kg	☼	02/27/14 15:45	03/06/14 03:13	50
1,2-Dibromo-3-Chloropropane	<75		170	75	ug/Kg	☼	02/27/14 15:45	03/06/14 03:13	50
1,2-Dibromoethane	<27		170	27	ug/Kg	☼	02/27/14 15:45	03/06/14 03:13	50
1,2-Dichlorobenzene	<18		170	18	ug/Kg	☼	02/27/14 15:45	03/06/14 03:13	50
1,2-Dichloroethane	<24		86	24	ug/Kg	☼	02/27/14 15:45	03/06/14 03:13	50
1,2-Dichloropropane	<17		86	17	ug/Kg	☼	02/27/14 15:45	03/06/14 03:13	50

Client: ARCADIS U.S., Inc.
Project/Site: MadisonKipp - WI001368.0012.00001

TestAmerica Job ID: 500-72448-1

Client Sample ID: B-193 (18-20)
Date Collected: 02/27/14 15:45
Date Received: 03/01/14 09:25

Lab Sample ID: 500-72448-6
Matrix: Solid
Percent Solids: 93.1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3,5-Trimethylbenzene	<18		170	18	ug/Kg	☼	02/27/14 15:45	03/06/14 03:13	50
1,3-Dichlorobenzene	<22		170	22	ug/Kg	☼	02/27/14 15:45	03/06/14 03:13	50
1,3-Dichloropropane	<11		86	11	ug/Kg	☼	02/27/14 15:45	03/06/14 03:13	50
1,4-Dichlorobenzene	<15		170	15	ug/Kg	☼	02/27/14 15:45	03/06/14 03:13	50
2,2-Dichloropropane	<27		86	27	ug/Kg	☼	02/27/14 15:45	03/06/14 03:13	50
2-Chlorotoluene	<18		86	18	ug/Kg	☼	02/27/14 15:45	03/06/14 03:13	50
4-Chlorotoluene	<17		86	17	ug/Kg	☼	02/27/14 15:45	03/06/14 03:13	50
Benzene	<6.4		21	6.4	ug/Kg	☼	02/27/14 15:45	03/06/14 03:13	50
Bromobenzene	<36		170	36	ug/Kg	☼	02/27/14 15:45	03/06/14 03:13	50
Bromochloromethane	<32		170	32	ug/Kg	☼	02/27/14 15:45	03/06/14 03:13	50
Bromodichloromethane	<29		170	29	ug/Kg	☼	02/27/14 15:45	03/06/14 03:13	50
Bromoform	<38		170	38	ug/Kg	☼	02/27/14 15:45	03/06/14 03:13	50
Bromomethane	<58		170	58	ug/Kg	☼	02/27/14 15:45	03/06/14 03:13	50
Carbon tetrachloride	<22		86	22	ug/Kg	☼	02/27/14 15:45	03/06/14 03:13	50
Chlorobenzene	<12		86	12	ug/Kg	☼	02/27/14 15:45	03/06/14 03:13	50
Chloroethane	<37	*	170	37	ug/Kg	☼	02/27/14 15:45	03/06/14 03:13	50
Chloroform	<18		86	18	ug/Kg	☼	02/27/14 15:45	03/06/14 03:13	50
Chloromethane	<40		170	40	ug/Kg	☼	02/27/14 15:45	03/06/14 03:13	50
cis-1,2-Dichloroethene	<11		86	11	ug/Kg	☼	02/27/14 15:45	03/06/14 03:13	50
cis-1,3-Dichloropropene	<15		86	15	ug/Kg	☼	02/27/14 15:45	03/06/14 03:13	50
Dibromochloromethane	<30		170	30	ug/Kg	☼	02/27/14 15:45	03/06/14 03:13	50
Dibromomethane	<41		170	41	ug/Kg	☼	02/27/14 15:45	03/06/14 03:13	50
Dichlorodifluoromethane	<44	*	170	44	ug/Kg	☼	02/27/14 15:45	03/06/14 03:13	50
Ethylbenzene	<11		21	11	ug/Kg	☼	02/27/14 15:45	03/06/14 03:13	50
Hexachlorobutadiene	<30		170	30	ug/Kg	☼	02/27/14 15:45	03/06/14 03:13	50
Isopropyl ether	<13		170	13	ug/Kg	☼	02/27/14 15:45	03/06/14 03:13	50
Isopropylbenzene	<22		170	22	ug/Kg	☼	02/27/14 15:45	03/06/14 03:13	50
Methyl tert-butyl ether	<37		170	37	ug/Kg	☼	02/27/14 15:45	03/06/14 03:13	50
Methylene Chloride	<59		430	59	ug/Kg	☼	02/27/14 15:45	03/06/14 03:13	50
Naphthalene	<42	*	170	42	ug/Kg	☼	02/27/14 15:45	03/06/14 03:13	50
n-Butylbenzene	<11		86	11	ug/Kg	☼	02/27/14 15:45	03/06/14 03:13	50
N-Propylbenzene	<15		170	15	ug/Kg	☼	02/27/14 15:45	03/06/14 03:13	50
p-Isopropyltoluene	<16		170	16	ug/Kg	☼	02/27/14 15:45	03/06/14 03:13	50
sec-Butylbenzene	<13		86	13	ug/Kg	☼	02/27/14 15:45	03/06/14 03:13	50
Styrene	<8.5		86	8.5	ug/Kg	☼	02/27/14 15:45	03/06/14 03:13	50
tert-Butylbenzene	<12		86	12	ug/Kg	☼	02/27/14 15:45	03/06/14 03:13	50
Tetrachloroethene	<14		86	14	ug/Kg	☼	02/27/14 15:45	03/06/14 03:13	50
Toluene	<9.9		21	9.9	ug/Kg	☼	02/27/14 15:45	03/06/14 03:13	50
trans-1,2-Dichloroethene	<21		86	21	ug/Kg	☼	02/27/14 15:45	03/06/14 03:13	50
trans-1,3-Dichloropropene	<18		86	18	ug/Kg	☼	02/27/14 15:45	03/06/14 03:13	50
Trichloroethene	<16		43	16	ug/Kg	☼	02/27/14 15:45	03/06/14 03:13	50
Trichlorofluoromethane	<36		170	36	ug/Kg	☼	02/27/14 15:45	03/06/14 03:13	50
Vinyl chloride	<8.9	*	21	8.9	ug/Kg	☼	02/27/14 15:45	03/06/14 03:13	50
Xylenes, Total	<5.9		43	5.9	ug/Kg	☼	02/27/14 15:45	03/06/14 03:13	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*106*		*75 - 125*	*02/27/14 15:45*	*03/06/14 03:13*	*50*
4-Bromofluorobenzene (Surr)	*113*		*75 - 120*	*02/27/14 15:45*	*03/06/14 03:13*	*50*
Dibromofluoromethane	*88*		*75 - 120*	*02/27/14 15:45*	*03/06/14 03:13*	*50*
Toluene-d8 (Surr)	*95*		*75 - 120*	*02/27/14 15:45*	*03/06/14 03:13*	*50*

Client Sample ID: B-193 (18-20)

Lab Sample ID: 500-72448-6

Date Collected: 02/27/14 15:45
Matrix: Solid
Date Received: 03/01/14 09:25
Percent Solids: 93.1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<6.2		18	6.2	ug/Kg	☼	03/03/14 17:46	03/05/14 10:47	1
PCB-1221	<7.8		18	7.8	ug/Kg	☼	03/03/14 17:46	03/05/14 10:47	1
PCB-1232	<7.7		18	7.7	ug/Kg	☼	03/03/14 17:46	03/05/14 10:47	1
PCB-1242	<5.8		18	5.8	ug/Kg	☼	03/03/14 17:46	03/05/14 10:47	1
PCB-1248	<6.9		18	6.9	ug/Kg	☼	03/03/14 17:46	03/05/14 10:47	1
PCB-1254	<3.8		18	3.8	ug/Kg	☼	03/03/14 17:46	03/05/14 10:47	1
PCB-1260	<8.7		18	8.7	ug/Kg	☼	03/03/14 17:46	03/05/14 10:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*52*		*50 - 116*	*03/03/14 17:46*	*03/05/14 10:47*	*1*
DCB Decachlorobiphenyl	*88*		*48 - 142*	*03/03/14 17:46*	*03/05/14 10:47*	*1*

Client Sample ID: B-195 (0-2)

Lab Sample ID: 500-72448-7

Date Collected: 02/27/14 15:50
Matrix: Solid
Date Received: 03/01/14 09:25
Percent Solids: 83.0

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<35		200	35	ug/Kg	☼	02/27/14 15:50	03/06/14 03:38	50
1,1,1-Trichloroethane	<20		100	20	ug/Kg	☼	02/27/14 15:50	03/06/14 03:38	50
1,1,2,2-Tetrachloroethane	<24		100	24	ug/Kg	☼	02/27/14 15:50	03/06/14 03:38	50
1,1,2-Trichloroethane	<28		100	28	ug/Kg	☼	02/27/14 15:50	03/06/14 03:38	50
1,1-Dichloroethane	<19		100	19	ug/Kg	☼	02/27/14 15:50	03/06/14 03:38	50
1,1-Dichloroethene	<31		100	31	ug/Kg	☼	02/27/14 15:50	03/06/14 03:38	50
1,1-Dichloropropene	<35		100	35	ug/Kg	☼	02/27/14 15:50	03/06/14 03:38	50
1,2,3-Trichlorobenzene	<35	*	200	35	ug/Kg	☼	02/27/14 15:50	03/06/14 03:38	50
1,2,3-Trichloropropane	<58		200	58	ug/Kg	☼	02/27/14 15:50	03/06/14 03:38	50
1,2,4-Trichlorobenzene	<38	*	200	38	ug/Kg	☼	02/27/14 15:50	03/06/14 03:38	50
1,2,4-Trimethylbenzene	<21		200	21	ug/Kg	☼	02/27/14 15:50	03/06/14 03:38	50
1,2-Dibromo-3-Chloropropane	<88		200	88	ug/Kg	☼	02/27/14 15:50	03/06/14 03:38	50
1,2-Dibromoethane	<32		200	32	ug/Kg	☼	02/27/14 15:50	03/06/14 03:38	50
1,2-Dichlorobenzene	<21		200	21	ug/Kg	☼	02/27/14 15:50	03/06/14 03:38	50
1,2-Dichloroethane	<29		100	29	ug/Kg	☼	02/27/14 15:50	03/06/14 03:38	50
1,2-Dichloropropane	<20		100	20	ug/Kg	☼	02/27/14 15:50	03/06/14 03:38	50
1,3,5-Trimethylbenzene	<21		200	21	ug/Kg	☼	02/27/14 15:50	03/06/14 03:38	50
1,3-Dichlorobenzene	<26		200	26	ug/Kg	☼	02/27/14 15:50	03/06/14 03:38	50
1,3-Dichloropropane	<14		100	14	ug/Kg	☼	02/27/14 15:50	03/06/14 03:38	50
1,4-Dichlorobenzene	<18		200	18	ug/Kg	☼	02/27/14 15:50	03/06/14 03:38	50
2,2-Dichloropropane	<32		100	32	ug/Kg	☼	02/27/14 15:50	03/06/14 03:38	50
2-Chlorotoluene	<21		100	21	ug/Kg	☼	02/27/14 15:50	03/06/14 03:38	50
4-Chlorotoluene	<20		100	20	ug/Kg	☼	02/27/14 15:50	03/06/14 03:38	50
Benzene	<7.5		25	7.5	ug/Kg	☼	02/27/14 15:50	03/06/14 03:38	50
Bromobenzene	<43		200	43	ug/Kg	☼	02/27/14 15:50	03/06/14 03:38	50
Bromochloromethane	<38		200	38	ug/Kg	☼	02/27/14 15:50	03/06/14 03:38	50
Bromodichloromethane	<34		200	34	ug/Kg	☼	02/27/14 15:50	03/06/14 03:38	50
Bromoform	<45		200	45	ug/Kg	☼	02/27/14 15:50	03/06/14 03:38	50
Bromomethane	<69		200	69	ug/Kg	☼	02/27/14 15:50	03/06/14 03:38	50
Carbon tetrachloride	<26		100	26	ug/Kg	☼	02/27/14 15:50	03/06/14 03:38	50
Chlorobenzene	<14		100	14	ug/Kg	☼	02/27/14 15:50	03/06/14 03:38	50
Chloroethane	<44	*	200	44	ug/Kg	☼	02/27/14 15:50	03/06/14 03:38	50

Client Sample ID: B-195 (0-2)
Date Collected: 02/27/14 15:50
Date Received: 03/01/14 09:25

Lab Sample ID: 500-72448-7
Matrix: Solid
Percent Solids: 83.0

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroform	<21		100	21	ug/Kg	☼	02/27/14 15:50	03/06/14 03:38	50
Chloromethane	<47		200	47	ug/Kg	☼	02/27/14 15:50	03/06/14 03:38	50
cis-1,2-Dichloroethene	<12		100	12	ug/Kg	☼	02/27/14 15:50	03/06/14 03:38	50
cis-1,3-Dichloropropene	<18		100	18	ug/Kg	☼	02/27/14 15:50	03/06/14 03:38	50
Dibromochloromethane	<35		200	35	ug/Kg	☼	02/27/14 15:50	03/06/14 03:38	50
Dibromomethane	<49		200	49	ug/Kg	☼	02/27/14 15:50	03/06/14 03:38	50
Dichlorodifluoromethane	<52	*	200	52	ug/Kg	☼	02/27/14 15:50	03/06/14 03:38	50
Ethylbenzene	<13		25	13	ug/Kg	☼	02/27/14 15:50	03/06/14 03:38	50
Hexachlorobutadiene	<35		200	35	ug/Kg	☼	02/27/14 15:50	03/06/14 03:38	50
Isopropyl ether	<15		200	15	ug/Kg	☼	02/27/14 15:50	03/06/14 03:38	50
Isopropylbenzene	<25		200	25	ug/Kg	☼	02/27/14 15:50	03/06/14 03:38	50
Methyl tert-butyl ether	<43		200	43	ug/Kg	☼	02/27/14 15:50	03/06/14 03:38	50
Methylene Chloride	<69		510	69	ug/Kg	☼	02/27/14 15:50	03/06/14 03:38	50
Naphthalene	<50	*	200	50	ug/Kg	☼	02/27/14 15:50	03/06/14 03:38	50
n-Butylbenzene	<13		100	13	ug/Kg	☼	02/27/14 15:50	03/06/14 03:38	50
N-Propylbenzene	<18		200	18	ug/Kg	☼	02/27/14 15:50	03/06/14 03:38	50
p-Isopropyltoluene	<19		200	19	ug/Kg	☼	02/27/14 15:50	03/06/14 03:38	50
sec-Butylbenzene	<16		100	16	ug/Kg	☼	02/27/14 15:50	03/06/14 03:38	50
Styrene	<10		100	10	ug/Kg	☼	02/27/14 15:50	03/06/14 03:38	50
tert-Butylbenzene	<14		100	14	ug/Kg	☼	02/27/14 15:50	03/06/14 03:38	50
Tetrachloroethene	**110**		100	17	ug/Kg	☼	02/27/14 15:50	03/06/14 03:38	50
Toluene	<12		25	12	ug/Kg	☼	02/27/14 15:50	03/06/14 03:38	50
trans-1,2-Dichloroethene	<25		100	25	ug/Kg	☼	02/27/14 15:50	03/06/14 03:38	50
trans-1,3-Dichloropropene	<21		100	21	ug/Kg	☼	02/27/14 15:50	03/06/14 03:38	50
Trichloroethene	<19		51	19	ug/Kg	☼	02/27/14 15:50	03/06/14 03:38	50
Trichlorofluoromethane	<42		200	42	ug/Kg	☼	02/27/14 15:50	03/06/14 03:38	50
Vinyl chloride	<11	*	25	11	ug/Kg	☼	02/27/14 15:50	03/06/14 03:38	50
Xylenes, Total	<6.9		51	6.9	ug/Kg	☼	02/27/14 15:50	03/06/14 03:38	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*75 - 125*	*02/27/14 15:50*	*03/06/14 03:38*	*50*
4-Bromofluorobenzene (Surr)	*114*		*75 - 120*	*02/27/14 15:50*	*03/06/14 03:38*	*50*
Dibromofluoromethane	*86*		*75 - 120*	*02/27/14 15:50*	*03/06/14 03:38*	*50*
Toluene-d8 (Surr)	*96*		*75 - 120*	*02/27/14 15:50*	*03/06/14 03:38*	*50*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<7.1		20	7.1	ug/Kg	☼	03/03/14 17:46	03/05/14 11:00	1
PCB-1221	<8.8		20	8.8	ug/Kg	☼	03/03/14 17:46	03/05/14 11:00	1
PCB-1232	<8.7		20	8.7	ug/Kg	☼	03/03/14 17:46	03/05/14 11:00	1
PCB-1242	<6.6		20	6.6	ug/Kg	☼	03/03/14 17:46	03/05/14 11:00	1
PCB-1248	**45**		20	7.9	ug/Kg	☼	03/03/14 17:46	03/05/14 11:00	1
PCB-1254	<4.3		20	4.3	ug/Kg	☼	03/03/14 17:46	03/05/14 11:00	1
PCB-1260	<9.8		20	9.8	ug/Kg	☼	03/03/14 17:46	03/05/14 11:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*67*		*50 - 116*	*03/03/14 17:46*	*03/05/14 11:00*	*1*
DCB Decachlorobiphenyl	*91*		*48 - 142*	*03/03/14 17:46*	*03/05/14 11:00*	*1*

Client: ARCADIS U.S., Inc.
Project/Site: MadisonKipp - WI001368.0012.00001

TestAmerica Job ID: 500-72448-1

Client Sample ID: B-195 (10-12)
Date Collected: 02/27/14 15:55
Date Received: 03/01/14 09:25

Lab Sample ID: 500-72448-8
Matrix: Solid
Percent Solids: 95.5

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<33		190	33	ug/Kg	☼	02/27/14 15:55	03/06/14 04:03	50
1,1,1-Trichloroethane	<19		94	19	ug/Kg	☼	02/27/14 15:55	03/06/14 04:03	50
1,1,2,2-Tetrachloroethane	<22		94	22	ug/Kg	☼	02/27/14 15:55	03/06/14 04:03	50
1,1,2-Trichloroethane	<26		94	26	ug/Kg	☼	02/27/14 15:55	03/06/14 04:03	50
1,1-Dichloroethane	<17		94	17	ug/Kg	☼	02/27/14 15:55	03/06/14 04:03	50
1,1-Dichloroethene	<29		94	29	ug/Kg	☼	02/27/14 15:55	03/06/14 04:03	50
1,1-Dichloropropene	<32		94	32	ug/Kg	☼	02/27/14 15:55	03/06/14 04:03	50
1,2,3-Trichlorobenzene	<33	*	190	33	ug/Kg	☼	02/27/14 15:55	03/06/14 04:03	50
1,2,3-Trichloropropane	<54		190	54	ug/Kg	☼	02/27/14 15:55	03/06/14 04:03	50
1,2,4-Trichlorobenzene	<36	*	190	36	ug/Kg	☼	02/27/14 15:55	03/06/14 04:03	50
1,2,4-Trimethylbenzene	<20		190	20	ug/Kg	☼	02/27/14 15:55	03/06/14 04:03	50
1,2-Dibromo-3-Chloropropane	<82		190	82	ug/Kg	☼	02/27/14 15:55	03/06/14 04:03	50
1,2-Dibromoethane	<30		190	30	ug/Kg	☼	02/27/14 15:55	03/06/14 04:03	50
1,2-Dichlorobenzene	<19		190	19	ug/Kg	☼	02/27/14 15:55	03/06/14 04:03	50
1,2-Dichloroethane	<27		94	27	ug/Kg	☼	02/27/14 15:55	03/06/14 04:03	50
1,2-Dichloropropane	<18		94	18	ug/Kg	☼	02/27/14 15:55	03/06/14 04:03	50
1,3,5-Trimethylbenzene	<19		190	19	ug/Kg	☼	02/27/14 15:55	03/06/14 04:03	50
1,3-Dichlorobenzene	<24		190	24	ug/Kg	☼	02/27/14 15:55	03/06/14 04:03	50
1,3-Dichloropropane	<13		94	13	ug/Kg	☼	02/27/14 15:55	03/06/14 04:03	50
1,4-Dichlorobenzene	<16		190	16	ug/Kg	☼	02/27/14 15:55	03/06/14 04:03	50
2,2-Dichloropropane	<30		94	30	ug/Kg	☼	02/27/14 15:55	03/06/14 04:03	50
2-Chlorotoluene	<20		94	20	ug/Kg	☼	02/27/14 15:55	03/06/14 04:03	50
4-Chlorotoluene	<19		94	19	ug/Kg	☼	02/27/14 15:55	03/06/14 04:03	50
Benzene	<7.0		24	7.0	ug/Kg	☼	02/27/14 15:55	03/06/14 04:03	50
Bromobenzene	<40		190	40	ug/Kg	☼	02/27/14 15:55	03/06/14 04:03	50
Bromochloromethane	<36		190	36	ug/Kg	☼	02/27/14 15:55	03/06/14 04:03	50
Bromodichloromethane	<32		190	32	ug/Kg	☼	02/27/14 15:55	03/06/14 04:03	50
Bromoform	<42		190	42	ug/Kg	☼	02/27/14 15:55	03/06/14 04:03	50
Bromomethane	<64		190	64	ug/Kg	☼	02/27/14 15:55	03/06/14 04:03	50
Carbon tetrachloride	<24		94	24	ug/Kg	☼	02/27/14 15:55	03/06/14 04:03	50
Chlorobenzene	<13		94	13	ug/Kg	☼	02/27/14 15:55	03/06/14 04:03	50
Chloroethane	<41	*	190	41	ug/Kg	☼	02/27/14 15:55	03/06/14 04:03	50
Chloroform	<19		94	19	ug/Kg	☼	02/27/14 15:55	03/06/14 04:03	50
Chloromethane	<44		190	44	ug/Kg	☼	02/27/14 15:55	03/06/14 04:03	50
cis-1,2-Dichloroethene	<12		94	12	ug/Kg	☼	02/27/14 15:55	03/06/14 04:03	50
cis-1,3-Dichloropropene	<17		94	17	ug/Kg	☼	02/27/14 15:55	03/06/14 04:03	50
Dibromochloromethane	<33		190	33	ug/Kg	☼	02/27/14 15:55	03/06/14 04:03	50
Dibromomethane	<45		190	45	ug/Kg	☼	02/27/14 15:55	03/06/14 04:03	50
Dichlorodifluoromethane	<48	*	190	48	ug/Kg	☼	02/27/14 15:55	03/06/14 04:03	50
Ethylbenzene	<12		24	12	ug/Kg	☼	02/27/14 15:55	03/06/14 04:03	50
Hexachlorobutadiene	<33		190	33	ug/Kg	☼	02/27/14 15:55	03/06/14 04:03	50
Isopropyl ether	<14		190	14	ug/Kg	☼	02/27/14 15:55	03/06/14 04:03	50
Isopropylbenzene	<24		190	24	ug/Kg	☼	02/27/14 15:55	03/06/14 04:03	50
Methyl tert-butyl ether	<41		190	41	ug/Kg	☼	02/27/14 15:55	03/06/14 04:03	50
Methylene Chloride	<64		470	64	ug/Kg	☼	02/27/14 15:55	03/06/14 04:03	50
Naphthalene	<47	*	190	47	ug/Kg	☼	02/27/14 15:55	03/06/14 04:03	50
n-Butylbenzene	<12		94	12	ug/Kg	☼	02/27/14 15:55	03/06/14 04:03	50
N-Propylbenzene	<17		190	17	ug/Kg	☼	02/27/14 15:55	03/06/14 04:03	50
p-Isopropyltoluene	<17		190	17	ug/Kg	☼	02/27/14 15:55	03/06/14 04:03	50

Client Sample ID: B-195 (10-12)

Lab Sample ID: 500-72448-8

Date Collected: 02/27/14 15:55
Matrix: Solid
Date Received: 03/01/14 09:25
Percent Solids: 95.5

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	<15		94	15	ug/Kg	☼	02/27/14 15:55	03/06/14 04:03	50
Styrene	<9.3		94	9.3	ug/Kg	☼	02/27/14 15:55	03/06/14 04:03	50
tert-Butylbenzene	<13		94	13	ug/Kg	☼	02/27/14 15:55	03/06/14 04:03	50
Tetrachloroethene	<16		94	16	ug/Kg	☼	02/27/14 15:55	03/06/14 04:03	50
Toluene	<11		24	11	ug/Kg	☼	02/27/14 15:55	03/06/14 04:03	50
trans-1,2-Dichloroethene	<24		94	24	ug/Kg	☼	02/27/14 15:55	03/06/14 04:03	50
trans-1,3-Dichloropropene	<20		94	20	ug/Kg	☼	02/27/14 15:55	03/06/14 04:03	50
Trichloroethene	<18		47	18	ug/Kg	☼	02/27/14 15:55	03/06/14 04:03	50
Trichlorofluoromethane	<39		190	39	ug/Kg	☼	02/27/14 15:55	03/06/14 04:03	50
Vinyl chloride	<9.8	*	24	9.8	ug/Kg	☼	02/27/14 15:55	03/06/14 04:03	50
Xylenes, Total	<6.5		47	6.5	ug/Kg	☼	02/27/14 15:55	03/06/14 04:03	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*106*		*75 - 125*	*02/27/14 15:55*	*03/06/14 04:03*	*50*
4-Bromofluorobenzene (Surr)	*114*		*75 - 120*	*02/27/14 15:55*	*03/06/14 04:03*	*50*
Dibromofluoromethane	*86*		*75 - 120*	*02/27/14 15:55*	*03/06/14 04:03*	*50*
Toluene-d8 (Surr)	*96*		*75 - 120*	*02/27/14 15:55*	*03/06/14 04:03*	*50*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<5.9		17	5.9	ug/Kg	☼	03/03/14 17:46	03/05/14 11:14	1
PCB-1221	<7.3		17	7.3	ug/Kg	☼	03/03/14 17:46	03/05/14 11:14	1
PCB-1232	<7.3		17	7.3	ug/Kg	☼	03/03/14 17:46	03/05/14 11:14	1
PCB-1242	<5.5		17	5.5	ug/Kg	☼	03/03/14 17:46	03/05/14 11:14	1
PCB-1248	<6.6		17	6.6	ug/Kg	☼	03/03/14 17:46	03/05/14 11:14	1
PCB-1254	<3.6		17	3.6	ug/Kg	☼	03/03/14 17:46	03/05/14 11:14	1
PCB-1260	<8.2		17	8.2	ug/Kg	☼	03/03/14 17:46	03/05/14 11:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*77*		*50 - 116*	*03/03/14 17:46*	*03/05/14 11:14*	*1*
DCB Decachlorobiphenyl	*92*		*48 - 142*	*03/03/14 17:46*	*03/05/14 11:14*	*1*

Client Sample ID: B-195 (18-20)

Lab Sample ID: 500-72448-9

Date Collected: 02/27/14 16:00
Matrix: Solid
Date Received: 03/01/14 09:25
Percent Solids: 94.0

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<28		160	28	ug/Kg	☼	02/27/14 16:00	03/06/14 04:28	50
1,1,1-Trichloroethane	<16		81	16	ug/Kg	☼	02/27/14 16:00	03/06/14 04:28	50
1,1,2,2-Tetrachloroethane	<19		81	19	ug/Kg	☼	02/27/14 16:00	03/06/14 04:28	50
1,1,2-Trichloroethane	<23		81	23	ug/Kg	☼	02/27/14 16:00	03/06/14 04:28	50
1,1-Dichloroethane	<15		81	15	ug/Kg	☼	02/27/14 16:00	03/06/14 04:28	50
1,1-Dichloroethene	<25		81	25	ug/Kg	☼	02/27/14 16:00	03/06/14 04:28	50
1,1-Dichloropropene	<28		81	28	ug/Kg	☼	02/27/14 16:00	03/06/14 04:28	50
1,2,3-Trichlorobenzene	<28	*	160	28	ug/Kg	☼	02/27/14 16:00	03/06/14 04:28	50
1,2,3-Trichloropropane	<47		160	47	ug/Kg	☼	02/27/14 16:00	03/06/14 04:28	50
1,2,4-Trichlorobenzene	<31	*	160	31	ug/Kg	☼	02/27/14 16:00	03/06/14 04:28	50
1,2,4-Trimethylbenzene	<17		160	17	ug/Kg	☼	02/27/14 16:00	03/06/14 04:28	50
1,2-Dibromo-3-Chloropropane	<71		160	71	ug/Kg	☼	02/27/14 16:00	03/06/14 04:28	50

Client: ARCADIS U.S., Inc.
Project/Site: MadisonKipp - WI001368.0012.00001

TestAmerica Job ID: 500-72448-1

Client Sample ID: B-195 (18-20)
Date Collected: 02/27/14 16:00
Date Received: 03/01/14 09:25

Lab Sample ID: 500-72448-9
Matrix: Solid
Percent Solids: 94.0

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane	<25		160	25	ug/Kg	☼	02/27/14 16:00	03/06/14 04:28	50
1,2-Dichlorobenzene	<17		160	17	ug/Kg	☼	02/27/14 16:00	03/06/14 04:28	50
1,2-Dichloroethane	<23		81	23	ug/Kg	☼	02/27/14 16:00	03/06/14 04:28	50
1,2-Dichloropropane	<16		81	16	ug/Kg	☼	02/27/14 16:00	03/06/14 04:28	50
1,3,5-Trimethylbenzene	<17		160	17	ug/Kg	☼	02/27/14 16:00	03/06/14 04:28	50
1,3-Dichlorobenzene	<21		160	21	ug/Kg	☼	02/27/14 16:00	03/06/14 04:28	50
1,3-Dichloropropane	<11		81	11	ug/Kg	☼	02/27/14 16:00	03/06/14 04:28	50
1,4-Dichlorobenzene	<14		160	14	ug/Kg	☼	02/27/14 16:00	03/06/14 04:28	50
2,2-Dichloropropane	<26		81	26	ug/Kg	☼	02/27/14 16:00	03/06/14 04:28	50
2-Chlorotoluene	<17		81	17	ug/Kg	☼	02/27/14 16:00	03/06/14 04:28	50
4-Chlorotoluene	<16		81	16	ug/Kg	☼	02/27/14 16:00	03/06/14 04:28	50
Benzene	<6.0		20	6.0	ug/Kg	☼	02/27/14 16:00	03/06/14 04:28	50
Bromobenzene	<35		160	35	ug/Kg	☼	02/27/14 16:00	03/06/14 04:28	50
Bromochloromethane	<31		160	31	ug/Kg	☼	02/27/14 16:00	03/06/14 04:28	50
Bromodichloromethane	<27		160	27	ug/Kg	☼	02/27/14 16:00	03/06/14 04:28	50
Bromoform	<36		160	36	ug/Kg	☼	02/27/14 16:00	03/06/14 04:28	50
Bromomethane	<55		160	55	ug/Kg	☼	02/27/14 16:00	03/06/14 04:28	50
Carbon tetrachloride	<21		81	21	ug/Kg	☼	02/27/14 16:00	03/06/14 04:28	50
Chlorobenzene	<12		81	12	ug/Kg	☼	02/27/14 16:00	03/06/14 04:28	50
Chloroethane	<35	*	160	35	ug/Kg	☼	02/27/14 16:00	03/06/14 04:28	50
Chloroform	<17		81	17	ug/Kg	☼	02/27/14 16:00	03/06/14 04:28	50
Chloromethane	<38		160	38	ug/Kg	☼	02/27/14 16:00	03/06/14 04:28	50
cis-1,2-Dichloroethene	<10		81	10	ug/Kg	☼	02/27/14 16:00	03/06/14 04:28	50
cis-1,3-Dichloropropene	<14		81	14	ug/Kg	☼	02/27/14 16:00	03/06/14 04:28	50
Dibromochloromethane	<28		160	28	ug/Kg	☼	02/27/14 16:00	03/06/14 04:28	50
Dibromomethane	<39		160	39	ug/Kg	☼	02/27/14 16:00	03/06/14 04:28	50
Dichlorodifluoromethane	<42	*	160	42	ug/Kg	☼	02/27/14 16:00	03/06/14 04:28	50
Ethylbenzene	<10		20	10	ug/Kg	☼	02/27/14 16:00	03/06/14 04:28	50
Hexachlorobutadiene	<28		160	28	ug/Kg	☼	02/27/14 16:00	03/06/14 04:28	50
Isopropyl ether	<12		160	12	ug/Kg	☼	02/27/14 16:00	03/06/14 04:28	50
Isopropylbenzene	<20		160	20	ug/Kg	☼	02/27/14 16:00	03/06/14 04:28	50
Methyl tert-butyl ether	<35		160	35	ug/Kg	☼	02/27/14 16:00	03/06/14 04:28	50
Methylene Chloride	<55		410	55	ug/Kg	☼	02/27/14 16:00	03/06/14 04:28	50
Naphthalene	<40	*	160	40	ug/Kg	☼	02/27/14 16:00	03/06/14 04:28	50
n-Butylbenzene	<10		81	10	ug/Kg	☼	02/27/14 16:00	03/06/14 04:28	50
N-Propylbenzene	<14		160	14	ug/Kg	☼	02/27/14 16:00	03/06/14 04:28	50
p-Isopropyltoluene	<15		160	15	ug/Kg	☼	02/27/14 16:00	03/06/14 04:28	50
sec-Butylbenzene	<13		81	13	ug/Kg	☼	02/27/14 16:00	03/06/14 04:28	50
Styrene	<8.0		81	8.0	ug/Kg	☼	02/27/14 16:00	03/06/14 04:28	50
tert-Butylbenzene	<11		81	11	ug/Kg	☼	02/27/14 16:00	03/06/14 04:28	50
Tetrachloroethene	<14		81	14	ug/Kg	☼	02/27/14 16:00	03/06/14 04:28	50
Toluene	<9.3		20	9.3	ug/Kg	☼	02/27/14 16:00	03/06/14 04:28	50
trans-1,2-Dichloroethene	<20		81	20	ug/Kg	☼	02/27/14 16:00	03/06/14 04:28	50
trans-1,3-Dichloropropene	<17		81	17	ug/Kg	☼	02/27/14 16:00	03/06/14 04:28	50
Trichloroethene	<15		41	15	ug/Kg	☼	02/27/14 16:00	03/06/14 04:28	50
Trichlorofluoromethane	<34		160	34	ug/Kg	☼	02/27/14 16:00	03/06/14 04:28	50
Vinyl chloride	<8.4	*	20	8.4	ug/Kg	☼	02/27/14 16:00	03/06/14 04:28	50
Xylenes, Total	<5.6		41	5.6	ug/Kg	☼	02/27/14 16:00	03/06/14 04:28	50

Client Sample ID: B-195 (18-20)

Lab Sample ID: 500-72448-9

Date Collected: 02/27/14 16:00
Matrix: Solid
Date Received: 03/01/14 09:25
Percent Solids: 94.0

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	104		75 - 125	02/27/14 16:00	03/06/14 04:28	50
4-Bromofluorobenzene (Surr)	111		75 - 120	02/27/14 16:00	03/06/14 04:28	50
Dibromofluoromethane	87		75 - 120	02/27/14 16:00	03/06/14 04:28	50
Toluene-d8 (Surr)	97		75 - 120	02/27/14 16:00	03/06/14 04:28	50

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<6.3		18	6.3	ug/Kg	☼	03/03/14 17:46	03/05/14 11:28	1
PCB-1221	<7.8		18	7.8	ug/Kg	☼	03/03/14 17:46	03/05/14 11:28	1
PCB-1232	<7.7		18	7.7	ug/Kg	☼	03/03/14 17:46	03/05/14 11:28	1
PCB-1242	<5.8		18	5.8	ug/Kg	☼	03/03/14 17:46	03/05/14 11:28	1
PCB-1248	<7.0		18	7.0	ug/Kg	☼	03/03/14 17:46	03/05/14 11:28	1
PCB-1254	<3.8		18	3.8	ug/Kg	☼	03/03/14 17:46	03/05/14 11:28	1
PCB-1260	<8.7		18	8.7	ug/Kg	☼	03/03/14 17:46	03/05/14 11:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	73		50 - 116	03/03/14 17:46	03/05/14 11:28	1
DCB Decachlorobiphenyl	95		48 - 142	03/03/14 17:46	03/05/14 11:28	1

Client Sample ID: Trip Blank

Lab Sample ID: 500-72448-10

Date Collected: 02/27/14 00:00
Matrix: Solid
Date Received: 03/01/14 09:25
Percent Solids: 100.0

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<17		100	17	ug/Kg	☼	02/27/14 00:00	03/06/14 04:53	50
1,1,1-Trichloroethane	<10		50	10	ug/Kg	☼	02/27/14 00:00	03/06/14 04:53	50
1,1,2,2-Tetrachloroethane	<12		50	12	ug/Kg	☼	02/27/14 00:00	03/06/14 04:53	50
1,1,2-Trichloroethane	<14		50	14	ug/Kg	☼	02/27/14 00:00	03/06/14 04:53	50
1,1-Dichloroethane	<9.3		50	9.3	ug/Kg	☼	02/27/14 00:00	03/06/14 04:53	50
1,1-Dichloroethene	<15		50	15	ug/Kg	☼	02/27/14 00:00	03/06/14 04:53	50
1,1-Dichloropropene	<17		50	17	ug/Kg	☼	02/27/14 00:00	03/06/14 04:53	50
1,2,3-Trichlorobenzene	<18	*	100	18	ug/Kg	☼	02/27/14 00:00	03/06/14 04:53	50
1,2,3-Trichloropropane	<29		100	29	ug/Kg	☼	02/27/14 00:00	03/06/14 04:53	50
1,2,4-Trichlorobenzene	<19	*	100	19	ug/Kg	☼	02/27/14 00:00	03/06/14 04:53	50
1,2,4-Trimethylbenzene	<11		100	11	ug/Kg	☼	02/27/14 00:00	03/06/14 04:53	50
1,2-Dibromo-3-Chloropropane	<44		100	44	ug/Kg	☼	02/27/14 00:00	03/06/14 04:53	50
1,2-Dibromoethane	<16		100	16	ug/Kg	☼	02/27/14 00:00	03/06/14 04:53	50
1,2-Dichlorobenzene	<10		100	10	ug/Kg	☼	02/27/14 00:00	03/06/14 04:53	50
1,2-Dichloroethane	<14		50	14	ug/Kg	☼	02/27/14 00:00	03/06/14 04:53	50
1,2-Dichloropropane	<9.8		50	9.8	ug/Kg	☼	02/27/14 00:00	03/06/14 04:53	50
1,3,5-Trimethylbenzene	<10		100	10	ug/Kg	☼	02/27/14 00:00	03/06/14 04:53	50
1,3-Dichlorobenzene	<13		100	13	ug/Kg	☼	02/27/14 00:00	03/06/14 04:53	50
1,3-Dichloropropane	<6.7		50	6.7	ug/Kg	☼	02/27/14 00:00	03/06/14 04:53	50
1,4-Dichlorobenzene	<8.7		100	8.7	ug/Kg	☼	02/27/14 00:00	03/06/14 04:53	50
2,2-Dichloropropane	<16		50	16	ug/Kg	☼	02/27/14 00:00	03/06/14 04:53	50
2-Chlorotoluene	<10		50	10	ug/Kg	☼	02/27/14 00:00	03/06/14 04:53	50
4-Chlorotoluene	<9.9		50	9.9	ug/Kg	☼	02/27/14 00:00	03/06/14 04:53	50
Benzene	<3.7		13	3.7	ug/Kg	☼	02/27/14 00:00	03/06/14 04:53	50
Bromobenzene	<21		100	21	ug/Kg	☼	02/27/14 00:00	03/06/14 04:53	50
Bromochloromethane	<19		100	19	ug/Kg	☼	02/27/14 00:00	03/06/14 04:53	50

Client: ARCADIS U.S., Inc.
Project/Site: MadisonKipp - WI001368.0012.00001

TestAmerica Job ID: 500-72448-1

Client Sample ID: Trip Blank
Date Collected: 02/27/14 00:00
Date Received: 03/01/14 09:25

Lab Sample ID: 500-72448-10
Matrix: Solid
Percent Solids: 100.0

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromodichloromethane	<17		100	17	ug/Kg	☼	02/27/14 00:00	03/06/14 04:53	50
Bromoform	<22		100	22	ug/Kg	☼	02/27/14 00:00	03/06/14 04:53	50
Bromomethane	<34		100	34	ug/Kg	☼	02/27/14 00:00	03/06/14 04:53	50
Carbon tetrachloride	<13		50	13	ug/Kg	☼	02/27/14 00:00	03/06/14 04:53	50
Chlorobenzene	<7.2		50	7.2	ug/Kg	☼	02/27/14 00:00	03/06/14 04:53	50
Chloroethane	<22	*	100	22	ug/Kg	☼	02/27/14 00:00	03/06/14 04:53	50
Chloroform	<10		50	10	ug/Kg	☼	02/27/14 00:00	03/06/14 04:53	50
Chloromethane	<23		100	23	ug/Kg	☼	02/27/14 00:00	03/06/14 04:53	50
cis-1,2-Dichloroethene	<6.2		50	6.2	ug/Kg	☼	02/27/14 00:00	03/06/14 04:53	50
cis-1,3-Dichloropropene	<8.9		50	8.9	ug/Kg	☼	02/27/14 00:00	03/06/14 04:53	50
Dibromochloromethane	<17		100	17	ug/Kg	☼	02/27/14 00:00	03/06/14 04:53	50
Dibromomethane	<24		100	24	ug/Kg	☼	02/27/14 00:00	03/06/14 04:53	50
Dichlorodifluoromethane	<26	*	100	26	ug/Kg	☼	02/27/14 00:00	03/06/14 04:53	50
Ethylbenzene	<6.3		13	6.3	ug/Kg	☼	02/27/14 00:00	03/06/14 04:53	50
Hexachlorobutadiene	<17		100	17	ug/Kg	☼	02/27/14 00:00	03/06/14 04:53	50
Isopropyl ether	<7.4		100	7.4	ug/Kg	☼	02/27/14 00:00	03/06/14 04:53	50
Isopropylbenzene	<13		100	13	ug/Kg	☼	02/27/14 00:00	03/06/14 04:53	50
Methyl tert-butyl ether	<22		100	22	ug/Kg	☼	02/27/14 00:00	03/06/14 04:53	50
Methylene Chloride	<34		250	34	ug/Kg	☼	02/27/14 00:00	03/06/14 04:53	50
Naphthalene	<25	*	100	25	ug/Kg	☼	02/27/14 00:00	03/06/14 04:53	50
n-Butylbenzene	<6.5		50	6.5	ug/Kg	☼	02/27/14 00:00	03/06/14 04:53	50
N-Propylbenzene	<8.8		100	8.8	ug/Kg	☼	02/27/14 00:00	03/06/14 04:53	50
p-Isopropyltoluene	<9.3		100	9.3	ug/Kg	☼	02/27/14 00:00	03/06/14 04:53	50
sec-Butylbenzene	<7.7		50	7.7	ug/Kg	☼	02/27/14 00:00	03/06/14 04:53	50
Styrene	<4.9		50	4.9	ug/Kg	☼	02/27/14 00:00	03/06/14 04:53	50
tert-Butylbenzene	<6.8		50	6.8	ug/Kg	☼	02/27/14 00:00	03/06/14 04:53	50
Tetrachloroethene	<8.4		50	8.4	ug/Kg	☼	02/27/14 00:00	03/06/14 04:53	50
Toluene	<5.8		13	5.8	ug/Kg	☼	02/27/14 00:00	03/06/14 04:53	50
trans-1,2-Dichloroethene	<13		50	13	ug/Kg	☼	02/27/14 00:00	03/06/14 04:53	50
trans-1,3-Dichloropropene	<10		50	10	ug/Kg	☼	02/27/14 00:00	03/06/14 04:53	50
Trichloroethene	<9.3		25	9.3	ug/Kg	☼	02/27/14 00:00	03/06/14 04:53	50
Trichlorofluoromethane	<21		100	21	ug/Kg	☼	02/27/14 00:00	03/06/14 04:53	50
Vinyl chloride	<5.2	*	13	5.2	ug/Kg	☼	02/27/14 00:00	03/06/14 04:53	50
Xylenes, Total	<3.4		25	3.4	ug/Kg	☼	02/27/14 00:00	03/06/14 04:53	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*75 - 125*	*02/27/14 00:00*	*03/06/14 04:53*	*50*
4-Bromofluorobenzene (Surr)	*114*		*75 - 120*	*02/27/14 00:00*	*03/06/14 04:53*	*50*
Dibromofluoromethane	*86*		*75 - 120*	*02/27/14 00:00*	*03/06/14 04:53*	*50*
Toluene-d8 (Surr)	*98*		*75 - 120*	*02/27/14 00:00*	*03/06/14 04:53*	*50*

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD exceeds the control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
X	Surrogate is outside control limits

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

GC/MS VOA

Prep Batch: 225543

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-72448-1	B-194 (2-4)	Total/NA	Solid	5035	
500-72448-2	B-194 (8-10)	Total/NA	Solid	5035	
500-72448-3	B-194 (20-21)	Total/NA	Solid	5035	
500-72448-4	B-193 (0-2)	Total/NA	Solid	5035	
500-72448-5	B-193 (12-14)	Total/NA	Solid	5035	
500-72448-6	B-193 (18-20)	Total/NA	Solid	5035	
500-72448-7	B-195 (0-2)	Total/NA	Solid	5035	
500-72448-8	B-195 (10-12)	Total/NA	Solid	5035	
500-72448-9	B-195 (18-20)	Total/NA	Solid	5035	
500-72448-10	Trip Blank	Total/NA	Solid	5035	
LB3 500-225543/20-A	Method Blank	Total/NA	Solid	5035	
LCS 500-225543/21-A	Lab Control Sample	Total/NA	Solid	5035	

Analysis Batch: 225738

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-72448-1	B-194 (2-4)	Total/NA	Solid	8260B	225543
500-72448-2	B-194 (8-10)	Total/NA	Solid	8260B	225543
500-72448-3	B-194 (20-21)	Total/NA	Solid	8260B	225543
500-72448-4	B-193 (0-2)	Total/NA	Solid	8260B	225543
500-72448-5	B-193 (12-14)	Total/NA	Solid	8260B	225543
500-72448-6	B-193 (18-20)	Total/NA	Solid	8260B	225543
500-72448-7	B-195 (0-2)	Total/NA	Solid	8260B	225543
500-72448-8	B-195 (10-12)	Total/NA	Solid	8260B	225543
500-72448-9	B-195 (18-20)	Total/NA	Solid	8260B	225543
500-72448-10	Trip Blank	Total/NA	Solid	8260B	225543
LB3 500-225543/20-A	Method Blank	Total/NA	Solid	8260B	225543
LCS 500-225543/21-A	Lab Control Sample	Total/NA	Solid	8260B	225543
LCS 500-225738/4	Lab Control Sample	Total/NA	Solid	8260B	
MB 500-225738/6	Method Blank	Total/NA	Solid	8260B	

GC Semi VOA

Prep Batch: 225428

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-72448-1	B-194 (2-4)	Total/NA	Solid	3541	
500-72448-2	B-194 (8-10)	Total/NA	Solid	3541	
500-72448-3	B-194 (20-21)	Total/NA	Solid	3541	
500-72448-4	B-193 (0-2)	Total/NA	Solid	3541	
500-72448-5	B-193 (12-14)	Total/NA	Solid	3541	
500-72448-6	B-193 (18-20)	Total/NA	Solid	3541	
500-72448-7	B-195 (0-2)	Total/NA	Solid	3541	
500-72448-8	B-195 (10-12)	Total/NA	Solid	3541	
500-72448-9	B-195 (18-20)	Total/NA	Solid	3541	
LCS 500-225428/3-A	Lab Control Sample	Total/NA	Solid	3541	
MB 500-225428/1-A	Method Blank	Total/NA	Solid	3541	

Analysis Batch: 225487

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-72448-1	B-194 (2-4)	Total/NA	Solid	8082	225428
500-72448-2	B-194 (8-10)	Total/NA	Solid	8082	225428

GC Semi VOA (Continued)

Analysis Batch: 225487 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-72448-3	B-194 (20-21)	Total/NA	Solid	8082	225428
500-72448-4	B-193 (0-2)	Total/NA	Solid	8082	225428
500-72448-5	B-193 (12-14)	Total/NA	Solid	8082	225428
500-72448-6	B-193 (18-20)	Total/NA	Solid	8082	225428
500-72448-7	B-195 (0-2)	Total/NA	Solid	8082	225428
500-72448-8	B-195 (10-12)	Total/NA	Solid	8082	225428
500-72448-9	B-195 (18-20)	Total/NA	Solid	8082	225428
LCS 500-225428/3-A	Lab Control Sample	Total/NA	Solid	8082	225428
MB 500-225428/1-A	Method Blank	Total/NA	Solid	8082	225428

General Chemistry

Analysis Batch: 225333

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-72448-1	B-194 (2-4)	Total/NA	Solid	Moisture	
500-72448-2	B-194 (8-10)	Total/NA	Solid	Moisture	
500-72448-3	B-194 (20-21)	Total/NA	Solid	Moisture	
500-72448-4	B-193 (0-2)	Total/NA	Solid	Moisture	
500-72448-5	B-193 (12-14)	Total/NA	Solid	Moisture	
500-72448-6	B-193 (18-20)	Total/NA	Solid	Moisture	
500-72448-7	B-195 (0-2)	Total/NA	Solid	Moisture	
500-72448-8	B-195 (10-12)	Total/NA	Solid	Moisture	
500-72448-9	B-195 (18-20)	Total/NA	Solid	Moisture	
500-72448-10	Trip Blank	Total/NA	Solid	Moisture	

Surrogate Summary

Client: ARCADIS U.S., Inc.
Project/Site: MadisonKipp - WI001368.0012.00001

TestAmerica Job ID: 500-72448-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		12DCE	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(75-125)	(75-120)	(75-120)	(75-120)
500-72448-1	B-194 (2-4)	105	111	89	96
500-72448-2	B-194 (8-10)	105	112	86	95
500-72448-3	B-194 (20-21)	105	114	87	95
500-72448-4	B-193 (0-2)	104	113	87	96
500-72448-5	B-193 (12-14)	105	113	87	97
500-72448-6	B-193 (18-20)	106	113	88	95
500-72448-7	B-195 (0-2)	104	114	86	96
500-72448-8	B-195 (10-12)	106	114	86	96
500-72448-9	B-195 (18-20)	104	111	87	97
500-72448-10	Trip Blank	104	114	86	98
LB3 500-225543/20-A	Method Blank	104	113	84	97
LCS 500-225543/21-A	Lab Control Sample	103	107	93	101
LCS 500-225738/4	Lab Control Sample	101	106	95	100
MB 500-225738/6	Method Blank	104	112	89	96

Surrogate Legend

12DCE = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane
TOL = Toluene-d8 (Surr)

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		TCX1	DCB1
Lab Sample ID	Client Sample ID	(50-116)	(48-142)
500-72448-1	B-194 (2-4)	77	105
500-72448-2	B-194 (8-10)	86	85
500-72448-3	B-194 (20-21)	59	80
500-72448-4	B-193 (0-2)	47 X	73
500-72448-5	B-193 (12-14)	73	98
500-72448-6	B-193 (18-20)	52	88
500-72448-7	B-195 (0-2)	67	91
500-72448-8	B-195 (10-12)	77	92
500-72448-9	B-195 (18-20)	73	95
LCS 500-225428/3-A	Lab Control Sample	77	100
MB 500-225428/1-A	Method Blank	79	91

Surrogate Legend

TCX = Tetrachloro-m-xylene
DCB = DCB Decachlorobiphenyl

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: LB3 500-225543/20-A
Matrix: Solid
Analysis Batch: 225738

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 225543

Analyte	LB3 Result	LB3 Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<17		100	17	ug/Kg		03/04/14 11:00	03/06/14 05:18	50
1,1,1-Trichloroethane	<10		50	10	ug/Kg		03/04/14 11:00	03/06/14 05:18	50
1,1,2,2-Tetrachloroethane	<12		50	12	ug/Kg		03/04/14 11:00	03/06/14 05:18	50
1,1,2-Trichloroethane	<14		50	14	ug/Kg		03/04/14 11:00	03/06/14 05:18	50
1,1-Dichloroethane	<9.3		50	9.3	ug/Kg		03/04/14 11:00	03/06/14 05:18	50
1,1-Dichloroethene	<15		50	15	ug/Kg		03/04/14 11:00	03/06/14 05:18	50
1,1-Dichloropropene	<17		50	17	ug/Kg		03/04/14 11:00	03/06/14 05:18	50
1,2,3-Trichlorobenzene	<18		100	18	ug/Kg		03/04/14 11:00	03/06/14 05:18	50
1,2,3-Trichloropropane	<29		100	29	ug/Kg		03/04/14 11:00	03/06/14 05:18	50
1,2,4-Trichlorobenzene	<19		100	19	ug/Kg		03/04/14 11:00	03/06/14 05:18	50
1,2,4-Trimethylbenzene	<11		100	11	ug/Kg		03/04/14 11:00	03/06/14 05:18	50
1,2-Dibromo-3-Chloropropane	<44		100	44	ug/Kg		03/04/14 11:00	03/06/14 05:18	50
1,2-Dibromoethane	<16		100	16	ug/Kg		03/04/14 11:00	03/06/14 05:18	50
1,2-Dichlorobenzene	<10		100	10	ug/Kg		03/04/14 11:00	03/06/14 05:18	50
1,2-Dichloroethane	<14		50	14	ug/Kg		03/04/14 11:00	03/06/14 05:18	50
1,2-Dichloropropane	<9.8		50	9.8	ug/Kg		03/04/14 11:00	03/06/14 05:18	50
1,3,5-Trimethylbenzene	<10		100	10	ug/Kg		03/04/14 11:00	03/06/14 05:18	50
1,3-Dichlorobenzene	<13		100	13	ug/Kg		03/04/14 11:00	03/06/14 05:18	50
1,3-Dichloropropane	<6.7		50	6.7	ug/Kg		03/04/14 11:00	03/06/14 05:18	50
1,4-Dichlorobenzene	<8.7		100	8.7	ug/Kg		03/04/14 11:00	03/06/14 05:18	50
2,2-Dichloropropane	<16		50	16	ug/Kg		03/04/14 11:00	03/06/14 05:18	50
2-Chlorotoluene	<10		50	10	ug/Kg		03/04/14 11:00	03/06/14 05:18	50
4-Chlorotoluene	<9.9		50	9.9	ug/Kg		03/04/14 11:00	03/06/14 05:18	50
Benzene	<3.7		13	3.7	ug/Kg		03/04/14 11:00	03/06/14 05:18	50
Bromobenzene	<21		100	21	ug/Kg		03/04/14 11:00	03/06/14 05:18	50
Bromochloromethane	<19		100	19	ug/Kg		03/04/14 11:00	03/06/14 05:18	50
Bromodichloromethane	<17		100	17	ug/Kg		03/04/14 11:00	03/06/14 05:18	50
Bromoform	<22		100	22	ug/Kg		03/04/14 11:00	03/06/14 05:18	50
Bromomethane	<34		100	34	ug/Kg		03/04/14 11:00	03/06/14 05:18	50
Carbon tetrachloride	<13		50	13	ug/Kg		03/04/14 11:00	03/06/14 05:18	50
Chlorobenzene	<7.2		50	7.2	ug/Kg		03/04/14 11:00	03/06/14 05:18	50
Chloroethane	<22		100	22	ug/Kg		03/04/14 11:00	03/06/14 05:18	50
Chloroform	<10		50	10	ug/Kg		03/04/14 11:00	03/06/14 05:18	50
Chloromethane	<23		100	23	ug/Kg		03/04/14 11:00	03/06/14 05:18	50
cis-1,2-Dichloroethene	<6.2		50	6.2	ug/Kg		03/04/14 11:00	03/06/14 05:18	50
cis-1,3-Dichloropropene	<8.9		50	8.9	ug/Kg		03/04/14 11:00	03/06/14 05:18	50
Dibromochloromethane	<17		100	17	ug/Kg		03/04/14 11:00	03/06/14 05:18	50
Dibromomethane	<24		100	24	ug/Kg		03/04/14 11:00	03/06/14 05:18	50
Dichlorodifluoromethane	<26		100	26	ug/Kg		03/04/14 11:00	03/06/14 05:18	50
Ethylbenzene	<6.3		13	6.3	ug/Kg		03/04/14 11:00	03/06/14 05:18	50
Hexachlorobutadiene	<17		100	17	ug/Kg		03/04/14 11:00	03/06/14 05:18	50
Isopropyl ether	<7.4		100	7.4	ug/Kg		03/04/14 11:00	03/06/14 05:18	50
Isopropylbenzene	<13		100	13	ug/Kg		03/04/14 11:00	03/06/14 05:18	50
Methyl tert-butyl ether	<22		100	22	ug/Kg		03/04/14 11:00	03/06/14 05:18	50
Methylene Chloride	<34		250	34	ug/Kg		03/04/14 11:00	03/06/14 05:18	50
Naphthalene	<25		100	25	ug/Kg		03/04/14 11:00	03/06/14 05:18	50
n-Butylbenzene	<6.5		50	6.5	ug/Kg		03/04/14 11:00	03/06/14 05:18	50
N-Propylbenzene	<8.8		100	8.8	ug/Kg		03/04/14 11:00	03/06/14 05:18	50

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LB3 500-225543/20-A
Matrix: Solid
Analysis Batch: 225738

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 225543

Analyte	LB3 Result	LB3 Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
p-Isopropyltoluene	<9.3		100	9.3	ug/Kg		03/04/14 11:00	03/06/14 05:18	50
sec-Butylbenzene	<7.7		50	7.7	ug/Kg		03/04/14 11:00	03/06/14 05:18	50
Styrene	<4.9		50	4.9	ug/Kg		03/04/14 11:00	03/06/14 05:18	50
tert-Butylbenzene	<6.8		50	6.8	ug/Kg		03/04/14 11:00	03/06/14 05:18	50
Tetrachloroethene	<8.4		50	8.4	ug/Kg		03/04/14 11:00	03/06/14 05:18	50
Toluene	<5.8		13	5.8	ug/Kg		03/04/14 11:00	03/06/14 05:18	50
trans-1,2-Dichloroethene	<13		50	13	ug/Kg		03/04/14 11:00	03/06/14 05:18	50
trans-1,3-Dichloropropene	<10		50	10	ug/Kg		03/04/14 11:00	03/06/14 05:18	50
Trichloroethene	<9.3		25	9.3	ug/Kg		03/04/14 11:00	03/06/14 05:18	50
Trichlorofluoromethane	<21		100	21	ug/Kg		03/04/14 11:00	03/06/14 05:18	50
Vinyl chloride	<5.2		13	5.2	ug/Kg		03/04/14 11:00	03/06/14 05:18	50
Xylenes, Total	<3.4		25	3.4	ug/Kg		03/04/14 11:00	03/06/14 05:18	50

Surrogate	*LB3 %Recovery*	*LB3 Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*75 - 125*	*03/04/14 11:00*	*03/06/14 05:18*	*50*
4-Bromofluorobenzene (Surr)	*113*		*75 - 120*	*03/04/14 11:00*	*03/06/14 05:18*	*50*
Dibromofluoromethane	*84*		*75 - 120*	*03/04/14 11:00*	*03/06/14 05:18*	*50*
Toluene-d8 (Surr)	*97*		*75 - 120*	*03/04/14 11:00*	*03/06/14 05:18*	*50*

Lab Sample ID: LCS 500-225543/21-A
Matrix: Solid
Analysis Batch: 225738

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 225543

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	2500	2480		ug/Kg		99	75 - 122
1,1,1-Trichloroethane	2500	2220		ug/Kg		89	72 - 124
1,1,2,2-Tetrachloroethane	2500	2510		ug/Kg		100	72 - 130
1,1,2-Trichloroethane	2500	2560		ug/Kg		102	75 - 120
1,1-Dichloroethane	2500	2480		ug/Kg		99	75 - 120
1,1-Dichloroethene	2500	2050		ug/Kg		82	69 - 120
1,1-Dichloropropene	2500	2490		ug/Kg		99	75 - 120
1,2,3-Trichlorobenzene	2500	3250		ug/Kg		130	69 - 131
1,2,3-Trichloropropane	2500	2680		ug/Kg		107	65 - 132
1,2,4-Trichlorobenzene	2500	2990		ug/Kg		120	73 - 125
1,2,4-Trimethylbenzene	2500	2580		ug/Kg		103	75 - 121
1,2-Dibromo-3-Chloropropane	2500	2510		ug/Kg		100	62 - 130
1,2-Dibromoethane	2500	2480		ug/Kg		99	78 - 122
1,2-Dichlorobenzene	2500	2560		ug/Kg		103	75 - 120
1,2-Dichloroethane	2500	2580		ug/Kg		103	69 - 130
1,2-Dichloropropane	2500	2750		ug/Kg		110	75 - 120
1,3,5-Trimethylbenzene	2500	2600		ug/Kg		104	75 - 121
1,3-Dichlorobenzene	2500	2470		ug/Kg		99	75 - 120
1,3-Dichloropropane	2500	2630		ug/Kg		105	77 - 124
1,4-Dichlorobenzene	2500	2420		ug/Kg		97	75 - 120
2,2-Dichloropropane	2500	1980		ug/Kg		79	65 - 132
2-Chlorotoluene	2500	2560		ug/Kg		102	75 - 120
4-Chlorotoluene	2500	2490		ug/Kg		100	75 - 120
Benzene	2500	2460		ug/Kg		99	75 - 120

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-225543/21-A
Matrix: Solid
Analysis Batch: 225738

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 225543

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Bromobenzene	2500	2560		ug/Kg		102	75 - 120
Bromochloromethane	2500	2290		ug/Kg		92	76 - 120
Bromodichloromethane	2500	2520		ug/Kg		101	77 - 121
Bromoform	2500	2250		ug/Kg		90	68 - 126
Bromomethane	2500	1120		ug/Kg		45	45 - 169
Carbon tetrachloride	2500	2190		ug/Kg		88	70 - 126
Chlorobenzene	2500	2470		ug/Kg		99	75 - 120
Chloroethane	2500	1380	*	ug/Kg		55	58 - 147
Chloroform	2500	2390		ug/Kg		96	76 - 120
Chloromethane	2500	1840		ug/Kg		74	63 - 133
cis-1,2-Dichloroethene	2500	2340		ug/Kg		94	75 - 120
cis-1,3-Dichloropropene	2500	2670		ug/Kg		107	78 - 121
Dibromochloromethane	2500	2100		ug/Kg		84	71 - 126
Dibromomethane	2500	2390		ug/Kg		95	75 - 120
Dichlorodifluoromethane	2500	761	*	ug/Kg		30	41 - 146
Ethylbenzene	2500	2460		ug/Kg		98	75 - 120
Hexachlorobutadiene	2500	2990		ug/Kg		120	71 - 131
Isopropylbenzene	2500	2550		ug/Kg		102	75 - 121
Methyl tert-butyl ether	2500	2350		ug/Kg		94	75 - 120
Methylene Chloride	2500	2020		ug/Kg		81	73 - 120
Naphthalene	2500	3210		ug/Kg		128	69 - 135
n-Butylbenzene	2500	2500		ug/Kg		100	75 - 121
N-Propylbenzene	2500	2540		ug/Kg		101	75 - 120
p-Isopropyltoluene	2500	2510		ug/Kg		100	75 - 121
sec-Butylbenzene	2500	2530		ug/Kg		101	75 - 120
Styrene	2500	2460		ug/Kg		98	75 - 120
tert-Butylbenzene	2500	2560		ug/Kg		103	75 - 123
Tetrachloroethene	2500	2480		ug/Kg		99	75 - 120
Toluene	2500	2590		ug/Kg		104	75 - 120
trans-1,2-Dichloroethene	2500	2210		ug/Kg		88	77 - 120
trans-1,3-Dichloropropene	2500	2490		ug/Kg		100	74 - 123
Trichloroethene	2500	2520		ug/Kg		101	75 - 120
Trichlorofluoromethane	2500	1800		ug/Kg		72	71 - 130
Vinyl chloride	2500	1650	*	ug/Kg		66	72 - 123
Xylenes, Total	5000	4910		ug/Kg		98	75 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*103*		*75 - 125*
4-Bromofluorobenzene (Surr)	*107*		*75 - 120*
Dibromofluoromethane	*93*		*75 - 120*
Toluene-d8 (Surr)	*101*		*75 - 120*

Lab Sample ID: MB 500-225738/6
Matrix: Solid
Analysis Batch: 225738

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.35		2.0	0.35	ug/Kg			03/05/14 22:40	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-225738/6
Matrix: Solid
Analysis Batch: 225738

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.20		1.0	0.20	ug/Kg			03/05/14 22:40	1
1,1,2,2-Tetrachloroethane	<0.23		1.0	0.23	ug/Kg			03/05/14 22:40	1
1,1,2-Trichloroethane	<0.28		1.0	0.28	ug/Kg			03/05/14 22:40	1
1,1-Dichloroethane	<0.19		1.0	0.19	ug/Kg			03/05/14 22:40	1
1,1-Dichloroethene	<0.31		1.0	0.31	ug/Kg			03/05/14 22:40	1
1,1-Dichloropropene	<0.34		1.0	0.34	ug/Kg			03/05/14 22:40	1
1,2,3-Trichlorobenzene	<0.35		2.0	0.35	ug/Kg			03/05/14 22:40	1
1,2,3-Trichloropropane	<0.57		2.0	0.57	ug/Kg			03/05/14 22:40	1
1,2,4-Trichlorobenzene	<0.38		2.0	0.38	ug/Kg			03/05/14 22:40	1
1,2,4-Trimethylbenzene	<0.21		2.0	0.21	ug/Kg			03/05/14 22:40	1
1,2-Dibromo-3-Chloropropane	<0.87		2.0	0.87	ug/Kg			03/05/14 22:40	1
1,2-Dibromoethane	<0.31		2.0	0.31	ug/Kg			03/05/14 22:40	1
1,2-Dichlorobenzene	<0.21		2.0	0.21	ug/Kg			03/05/14 22:40	1
1,2-Dichloroethane	<0.29		1.0	0.29	ug/Kg			03/05/14 22:40	1
1,2-Dichloropropane	<0.20		1.0	0.20	ug/Kg			03/05/14 22:40	1
1,3,5-Trimethylbenzene	<0.21		2.0	0.21	ug/Kg			03/05/14 22:40	1
1,3-Dichlorobenzene	<0.26		2.0	0.26	ug/Kg			03/05/14 22:40	1
1,3-Dichloropropane	<0.13		1.0	0.13	ug/Kg			03/05/14 22:40	1
1,4-Dichlorobenzene	<0.17		2.0	0.17	ug/Kg			03/05/14 22:40	1
2,2-Dichloropropane	<0.32		1.0	0.32	ug/Kg			03/05/14 22:40	1
2-Chlorotoluene	<0.21		1.0	0.21	ug/Kg			03/05/14 22:40	1
4-Chlorotoluene	<0.20		1.0	0.20	ug/Kg			03/05/14 22:40	1
Benzene	<0.074		0.25	0.074	ug/Kg			03/05/14 22:40	1
Bromobenzene	<0.43		2.0	0.43	ug/Kg			03/05/14 22:40	1
Bromochloromethane	<0.38		2.0	0.38	ug/Kg			03/05/14 22:40	1
Bromodichloromethane	<0.34		2.0	0.34	ug/Kg			03/05/14 22:40	1
Bromoform	<0.44		2.0	0.44	ug/Kg			03/05/14 22:40	1
Bromomethane	<0.68		2.0	0.68	ug/Kg			03/05/14 22:40	1
Carbon tetrachloride	<0.26		1.0	0.26	ug/Kg			03/05/14 22:40	1
Chlorobenzene	<0.14		1.0	0.14	ug/Kg			03/05/14 22:40	1
Chloroethane	<0.44		2.0	0.44	ug/Kg			03/05/14 22:40	1
Chloroform	<0.21		1.0	0.21	ug/Kg			03/05/14 22:40	1
Chloromethane	<0.46		2.0	0.46	ug/Kg			03/05/14 22:40	1
cis-1,2-Dichloroethene	<0.12		1.0	0.12	ug/Kg			03/05/14 22:40	1
cis-1,3-Dichloropropene	<0.18		1.0	0.18	ug/Kg			03/05/14 22:40	1
Dibromochloromethane	<0.35		2.0	0.35	ug/Kg			03/05/14 22:40	1
Dibromomethane	<0.48		2.0	0.48	ug/Kg			03/05/14 22:40	1
Dichlorodifluoromethane	<0.51		2.0	0.51	ug/Kg			03/05/14 22:40	1
Ethylbenzene	<0.13		0.25	0.13	ug/Kg			03/05/14 22:40	1
Hexachlorobutadiene	<0.35		2.0	0.35	ug/Kg			03/05/14 22:40	1
Isopropyl ether	<0.15		2.0	0.15	ug/Kg			03/05/14 22:40	1
Isopropylbenzene	<0.25		2.0	0.25	ug/Kg			03/05/14 22:40	1
Methyl tert-butyl ether	<0.43		2.0	0.43	ug/Kg			03/05/14 22:40	1
Methylene Chloride	<0.68		5.0	0.68	ug/Kg			03/05/14 22:40	1
Naphthalene	<0.49		2.0	0.49	ug/Kg			03/05/14 22:40	1
n-Butylbenzene	<0.13		1.0	0.13	ug/Kg			03/05/14 22:40	1
N-Propylbenzene	<0.18		2.0	0.18	ug/Kg			03/05/14 22:40	1
p-Isopropyltoluene	<0.19		2.0	0.19	ug/Kg			03/05/14 22:40	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-225738/6
Matrix: Solid
Analysis Batch: 225738

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	<0.15		1.0	0.15	ug/Kg			03/05/14 22:40	1
Styrene	<0.099		1.0	0.099	ug/Kg			03/05/14 22:40	1
tert-Butylbenzene	<0.14		1.0	0.14	ug/Kg			03/05/14 22:40	1
Tetrachloroethene	<0.17		1.0	0.17	ug/Kg			03/05/14 22:40	1
Toluene	<0.12		0.25	0.12	ug/Kg			03/05/14 22:40	1
trans-1,2-Dichloroethene	<0.25		1.0	0.25	ug/Kg			03/05/14 22:40	1
trans-1,3-Dichloropropene	<0.21		1.0	0.21	ug/Kg			03/05/14 22:40	1
Trichloroethene	<0.19		0.50	0.19	ug/Kg			03/05/14 22:40	1
Trichlorofluoromethane	<0.42		2.0	0.42	ug/Kg			03/05/14 22:40	1
Vinyl chloride	<0.10		0.25	0.10	ug/Kg			03/05/14 22:40	1
Xylenes, Total	<0.068		0.50	0.068	ug/Kg			03/05/14 22:40	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*75 - 125*		*03/05/14 22:40*	*1*
4-Bromofluorobenzene (Surr)	*112*		*75 - 120*		*03/05/14 22:40*	*1*
Dibromofluoromethane	*89*		*75 - 120*		*03/05/14 22:40*	*1*
Toluene-d8 (Surr)	*96*		*75 - 120*		*03/05/14 22:40*	*1*

Lab Sample ID: LCS 500-225738/4
Matrix: Solid
Analysis Batch: 225738

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	50.0	51.9		ug/Kg		104	75 - 122
1,1,1-Trichloroethane	50.0	46.0		ug/Kg		92	72 - 124
1,1,2,2-Tetrachloroethane	50.0	58.6		ug/Kg		117	72 - 130
1,1,2-Trichloroethane	50.0	53.6		ug/Kg		107	75 - 120
1,1-Dichloroethane	50.0	49.8		ug/Kg		100	75 - 120
1,1-Dichloroethene	50.0	43.1		ug/Kg		86	69 - 120
1,1-Dichloropropene	50.0	49.6		ug/Kg		99	75 - 120
1,2,3-Trichlorobenzene	50.0	67.5	*	ug/Kg		135	69 - 131
1,2,3-Trichloropropane	50.0	59.4		ug/Kg		119	65 - 132
1,2,4-Trichlorobenzene	50.0	64.1	*	ug/Kg		128	73 - 125
1,2,4-Trimethylbenzene	50.0	52.7		ug/Kg		105	75 - 121
1,2-Dibromo-3-Chloropropane	50.0	55.4		ug/Kg		111	62 - 130
1,2-Dibromoethane	50.0	50.6		ug/Kg		101	78 - 122
1,2-Dichlorobenzene	50.0	54.3		ug/Kg		109	75 - 120
1,2-Dichloroethane	50.0	51.5		ug/Kg		103	69 - 130
1,2-Dichloropropane	50.0	55.9		ug/Kg		112	75 - 120
1,3,5-Trimethylbenzene	50.0	53.0		ug/Kg		106	75 - 121
1,3-Dichlorobenzene	50.0	51.5		ug/Kg		103	75 - 120
1,3-Dichloropropane	50.0	54.7		ug/Kg		109	77 - 124
1,4-Dichlorobenzene	50.0	50.2		ug/Kg		100	75 - 120
2,2-Dichloropropane	50.0	41.6		ug/Kg		83	65 - 132
2-Chlorotoluene	50.0	52.4		ug/Kg		105	75 - 120
4-Chlorotoluene	50.0	51.5		ug/Kg		103	75 - 120
Benzene	50.0	49.5		ug/Kg		99	75 - 120
Bromobenzene	50.0	53.1		ug/Kg		106	75 - 120

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-225738/4
Matrix: Solid
Analysis Batch: 225738

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Bromochloromethane	50.0	46.4		ug/Kg		93	76 - 120
Bromodichloromethane	50.0	52.3		ug/Kg		105	77 - 121
Bromoform	50.0	49.3		ug/Kg		99	68 - 126
Bromomethane	50.0	29.3		ug/Kg		59	45 - 169
Carbon tetrachloride	50.0	44.9		ug/Kg		90	70 - 126
Chlorobenzene	50.0	50.2		ug/Kg		100	75 - 120
Chloroethane	50.0	39.1		ug/Kg		78	58 - 147
Chloroform	50.0	48.3		ug/Kg		97	76 - 120
Chloromethane	50.0	55.6		ug/Kg		111	63 - 133
cis-1,2-Dichloroethene	50.0	47.2		ug/Kg		94	75 - 120
cis-1,3-Dichloropropene	50.0	55.9		ug/Kg		112	78 - 121
Dibromochloromethane	50.0	45.3		ug/Kg		91	71 - 126
Dibromomethane	50.0	47.8		ug/Kg		96	75 - 120
Dichlorodifluoromethane	50.0	34.5		ug/Kg		69	41 - 146
Ethylbenzene	50.0	49.6		ug/Kg		99	75 - 120
Hexachlorobutadiene	50.0	62.7		ug/Kg		125	71 - 131
Isopropylbenzene	50.0	51.8		ug/Kg		104	75 - 121
Methyl tert-butyl ether	50.0	46.5		ug/Kg		93	75 - 120
Methylene Chloride	50.0	40.3		ug/Kg		81	73 - 120
Naphthalene	50.0	69.2	*	ug/Kg		138	69 - 135
n-Butylbenzene	50.0	52.5		ug/Kg		105	75 - 121
N-Propylbenzene	50.0	51.8		ug/Kg		104	75 - 120
p-Isopropyltoluene	50.0	51.8		ug/Kg		104	75 - 121
sec-Butylbenzene	50.0	51.4		ug/Kg		103	75 - 120
Styrene	50.0	50.8		ug/Kg		102	75 - 120
tert-Butylbenzene	50.0	52.3		ug/Kg		105	75 - 123
Tetrachloroethene	50.0	50.9		ug/Kg		102	75 - 120
Toluene	50.0	52.4		ug/Kg		105	75 - 120
trans-1,2-Dichloroethene	50.0	44.1		ug/Kg		88	77 - 120
trans-1,3-Dichloropropene	50.0	53.9		ug/Kg		108	74 - 123
Trichloroethene	50.0	50.1		ug/Kg		100	75 - 120
Trichlorofluoromethane	50.0	44.9		ug/Kg		90	71 - 130
Vinyl chloride	50.0	47.9		ug/Kg		96	72 - 123
Xylenes, Total	100	100		ug/Kg		100	75 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*101*		*75 - 125*
4-Bromofluorobenzene (Surr)	*106*		*75 - 120*
Dibromofluoromethane	*95*		*75 - 120*
Toluene-d8 (Surr)	*100*		*75 - 120*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 500-225428/1-A
Matrix: Solid
Analysis Batch: 225487

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 225428

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<5.9		17	5.9	ug/Kg		03/03/14 17:46	03/05/14 08:57	1
PCB-1221	<7.3		17	7.3	ug/Kg		03/03/14 17:46	03/05/14 08:57	1
PCB-1232	<7.3		17	7.3	ug/Kg		03/03/14 17:46	03/05/14 08:57	1
PCB-1242	<5.5		17	5.5	ug/Kg		03/03/14 17:46	03/05/14 08:57	1
PCB-1248	<6.6		17	6.6	ug/Kg		03/03/14 17:46	03/05/14 08:57	1
PCB-1254	<3.6		17	3.6	ug/Kg		03/03/14 17:46	03/05/14 08:57	1
PCB-1260	<8.2		17	8.2	ug/Kg		03/03/14 17:46	03/05/14 08:57	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*79*		*50 - 116*	*03/03/14 17:46*	*03/05/14 08:57*	*1*
DCB Decachlorobiphenyl	*91*		*48 - 142*	*03/03/14 17:46*	*03/05/14 08:57*	*1*

Lab Sample ID: LCS 500-225428/3-A
Matrix: Solid
Analysis Batch: 225487

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 225428

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
PCB-1016			167	168		ug/Kg		101	59 - 110		
PCB-1260			167	185		ug/Kg		111	69 - 120		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene	*77*		*50 - 116*
DCB Decachlorobiphenyl	*100*		*48 - 142*

Client Sample ID: B-194 (2-4)

Lab Sample ID: 500-72448-1

Date Collected: 02/27/14 15:15
Matrix: Solid
Date Received: 03/01/14 09:25
Percent Solids: 80.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			225543	02/27/14 15:15	WRE	TAL CHI
Total/NA	Analysis	8260B		50	225738	03/06/14 01:09	BDA	TAL CHI
Total/NA	Prep	3541			225428	03/03/14 17:46	DEA	TAL CHI
Total/NA	Analysis	8082		1	225487	03/05/14 09:38	GMO	TAL CHI
Total/NA	Analysis	Moisture		1	225333	03/03/14 14:19	LWN	TAL CHI

Client Sample ID: B-194 (8-10)

Lab Sample ID: 500-72448-2

Date Collected: 02/27/14 15:25
Matrix: Solid
Date Received: 03/01/14 09:25
Percent Solids: 94.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			225543	02/27/14 15:25	WRE	TAL CHI
Total/NA	Analysis	8260B		50	225738	03/06/14 01:34	BDA	TAL CHI
Total/NA	Prep	3541			225428	03/03/14 17:46	DEA	TAL CHI
Total/NA	Analysis	8082		1	225487	03/05/14 09:52	GMO	TAL CHI
Total/NA	Analysis	Moisture		1	225333	03/03/14 14:19	LWN	TAL CHI

Client Sample ID: B-194 (20-21)

Lab Sample ID: 500-72448-3

Date Collected: 02/27/14 15:30
Matrix: Solid
Date Received: 03/01/14 09:25
Percent Solids: 93.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			225543	02/27/14 15:30	WRE	TAL CHI
Total/NA	Analysis	8260B		50	225738	03/06/14 01:59	BDA	TAL CHI
Total/NA	Prep	3541			225428	03/03/14 17:46	DEA	TAL CHI
Total/NA	Analysis	8082		1	225487	03/05/14 10:06	GMO	TAL CHI
Total/NA	Analysis	Moisture		1	225333	03/03/14 14:19	LWN	TAL CHI

Client Sample ID: B-193 (0-2)

Lab Sample ID: 500-72448-4

Date Collected: 02/27/14 15:35
Matrix: Solid
Date Received: 03/01/14 09:25
Percent Solids: 84.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			225543	02/27/14 15:35	WRE	TAL CHI
Total/NA	Analysis	8260B		50	225738	03/06/14 02:24	BDA	TAL CHI
Total/NA	Prep	3541			225428	03/03/14 17:46	DEA	TAL CHI
Total/NA	Analysis	8082		1	225487	03/05/14 10:19	GMO	TAL CHI
Total/NA	Analysis	Moisture		1	225333	03/03/14 14:19	LWN	TAL CHI

Client Sample ID: B-193 (12-14)

Lab Sample ID: 500-72448-5

Date Collected: 02/27/14 15:40
Matrix: Solid
Date Received: 03/01/14 09:25
Percent Solids: 91.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			225543	02/27/14 15:40	WRE	TAL CHI
Total/NA	Analysis	8260B		50	225738	03/06/14 02:49	BDA	TAL CHI
Total/NA	Prep	3541			225428	03/03/14 17:46	DEA	TAL CHI
Total/NA	Analysis	8082		5	225487	03/05/14 10:33	GMO	TAL CHI
Total/NA	Analysis	Moisture		1	225333	03/03/14 14:19	LWN	TAL CHI

Client Sample ID: B-193 (18-20)

Lab Sample ID: 500-72448-6

Date Collected: 02/27/14 15:45
Matrix: Solid
Date Received: 03/01/14 09:25
Percent Solids: 93.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			225543	02/27/14 15:45	WRE	TAL CHI
Total/NA	Analysis	8260B		50	225738	03/06/14 03:13	BDA	TAL CHI
Total/NA	Prep	3541			225428	03/03/14 17:46	DEA	TAL CHI
Total/NA	Analysis	8082		1	225487	03/05/14 10:47	GMO	TAL CHI
Total/NA	Analysis	Moisture		1	225333	03/03/14 14:19	LWN	TAL CHI

Client Sample ID: B-195 (0-2)

Lab Sample ID: 500-72448-7

Date Collected: 02/27/14 15:50
Matrix: Solid
Date Received: 03/01/14 09:25
Percent Solids: 83.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			225543	02/27/14 15:50	WRE	TAL CHI
Total/NA	Analysis	8260B		50	225738	03/06/14 03:38	BDA	TAL CHI
Total/NA	Prep	3541			225428	03/03/14 17:46	DEA	TAL CHI
Total/NA	Analysis	8082		1	225487	03/05/14 11:00	GMO	TAL CHI
Total/NA	Analysis	Moisture		1	225333	03/03/14 14:19	LWN	TAL CHI

Client Sample ID: B-195 (10-12)

Lab Sample ID: 500-72448-8

Date Collected: 02/27/14 15:55
Matrix: Solid
Date Received: 03/01/14 09:25
Percent Solids: 95.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			225543	02/27/14 15:55	WRE	TAL CHI
Total/NA	Analysis	8260B		50	225738	03/06/14 04:03	BDA	TAL CHI
Total/NA	Prep	3541			225428	03/03/14 17:46	DEA	TAL CHI
Total/NA	Analysis	8082		1	225487	03/05/14 11:14	GMO	TAL CHI
Total/NA	Analysis	Moisture		1	225333	03/03/14 14:19	LWN	TAL CHI

Lab Chronicle

Client: ARCADIS U.S., Inc.
Project/Site: MadisonKipp - WI001368.0012.00001

TestAmerica Job ID: 500-72448-1

Client Sample ID: B-195 (18-20)

Lab Sample ID: 500-72448-9

Date Collected: 02/27/14 16:00
Matrix: Solid
Date Received: 03/01/14 09:25
Percent Solids: 94.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			225543	02/27/14 16:00	WRE	TAL CHI
Total/NA	Analysis	8260B		50	225738	03/06/14 04:28	BDA	TAL CHI
Total/NA	Prep	3541			225428	03/03/14 17:46	DEA	TAL CHI
Total/NA	Analysis	8082		1	225487	03/05/14 11:28	GMO	TAL CHI
Total/NA	Analysis	Moisture		1	225333	03/03/14 14:19	LWN	TAL CHI

Client Sample ID: Trip Blank

Lab Sample ID: 500-72448-10

Date Collected: 02/27/14 00:00
Matrix: Solid
Date Received: 03/01/14 09:25
Percent Solids: 100.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			225543	02/27/14 00:00	WRE	TAL CHI
Total/NA	Analysis	8260B		50	225738	03/06/14 04:53	BDA	TAL CHI
Total/NA	Analysis	Moisture		1	225333	03/03/14 14:19	LWN	TAL CHI

Laboratory References:

TAL CHI = TestAmerica Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Certification Summary

Client: ARCADIS U.S., Inc.
Project/Site: MadisonKipp - WI001368.0012.00001

TestAmerica Job ID: 500-72448-1

Laboratory: TestAmerica Chicago

Unless otherwise noted, all analytes for this laboratory were covered under each certification below.

Authority	Program	EPA Region	Certification ID	Expiration Date
Wisconsin	State Program	5	999580010	08-31-14

The following analytes are included in this report, but certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
8082	3541	Solid	PCB-1016
8082	3541	Solid	PCB-1221
8082	3541	Solid	PCB-1232
8082	3541	Solid	PCB-1242
8082	3541	Solid	PCB-1248
8082	3541	Solid	PCB-1254
8082	3541	Solid	PCB-1260
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

500-72448 COC

ID#:

CHAIN OF CUSTODY & LABORATORY ANALYSIS REQUEST FORM

Page 1 of 1

Lab Work Order # 500-72448

Send Results to:

Contact & Company Name: TONI SCHOEN, ARCADIS
Telephone: 414-276-7742
Address: 126 N. JEFFERSON, #400
Fax: 414-276-7603
City: MILWAUKEE State: WI Zip: 53202
E-mail Address: TONI.SCHOEN@ARCADIS-US.COM
Project Name/Location (City, State): MADISON-KLPP
Project #: WI001368.0012.00011
Sampler's Printed Name: BRYAN ERNST
Sampler's Signature: Bryan Ernst

Preservative	F	E						
Filtered (✓)	NO	NO						
# of Containers	2	1						
Container Information	1,6	7						

PARAMETER ANALYSIS & METHOD

	Sample ID	Collection Date	Collection Time	Type (✓) Comp	Type (✓) Grab	Matrix	VOCs	DRY WT.	PCBs					
1	B-194(2-4)	2/27/14	1515		X	SO	2	1						
2	B-194(8-10)		1525		X	SO	2	1						
3	B-194(20-21)		1530		X	SO	2	1						
4	B-193(0-2)		1535		X	SO	2	1						
5	B-193(12-14)		1540		X	SO	2	1						
6	B-193(18-20)		1545		X	SO	2	1						
7	B-195(0-2)		1550		X	SO	2	1						
8	B-195(10-12)		1555		X	SO	2	1						
9	B-195(18-20)		1600		X	SO	2	1						
10	TRIP BLANK	—	—	—	—	W	1							

Keys

Preservation Key:
A. H_2SO_4
B. HCL
C. HNO_3
D. NaOH
E. None
F. Other: MeOH, 10mL
G. Other: _____
H. Other: _____

Container Information Key:
1. 40 ml Vial
2. 1 L Amber
3. 250 ml Plastic
4. 500 ml Plastic
5. Encore
6. 2 oz. Glass
7. 4 oz. Glass
8. 8 oz. Glass
9. Other: _____
10. Other: _____

Matrix Key:
SO - Soil
W - Water
T - Tissue
SE - Sediment
SL - Sludge
A - Air
NL - NAPL/Oil
SW - Sample Wipe
Other: _____

REMARKS

Special Instructions/Comments:

☐ Special QA/QC Instructions(✓):

Laboratory Information and Receipt		Relinquished By	Received By	Relinquished By	Laboratory Received By
Lab Name: TEST AMERICA	Cooler Custody Seal (✓)	Printed Name: BRYAN ERNST	Printed Name: JEFF LUNT	Printed Name:	Printed Name:
☒ Cooler packed with ice (✓)	☑ Intact ☐ Not Intact	Signature: Bryan Ernst	Signature:	Signature:	Signature:
Specify Turnaround Requirements: 5 DAY	Sample Receipt:	Firm: ARCADIS	Firm/Courier:	Firm/Courier:	Firm:
Shipping Tracking #:	Condition/Cooler Temp: 2.9	Date/Time: 2/28/14 @ 1700	Date/Time: 3/1/14 0925	Date/Time:	Date/Time:

Login Sample Receipt Checklist

Client: ARCADIS U.S., Inc.

Job Number: 500-72448-1

Login Number: 72448

List Number: 1

Creator: Lunt, Jeff T

List Source: TestAmerica Chicago

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	2.9
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	